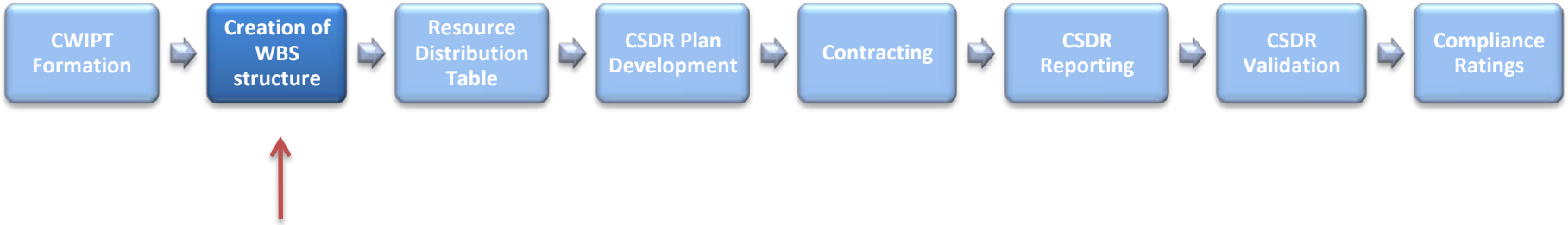
Work Breakdown Structure



8 – 12 months before Overarching Integrated Product Team (OIPT) Review

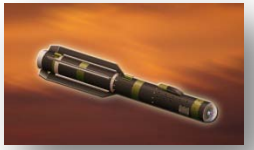
Work Breakdown Structure

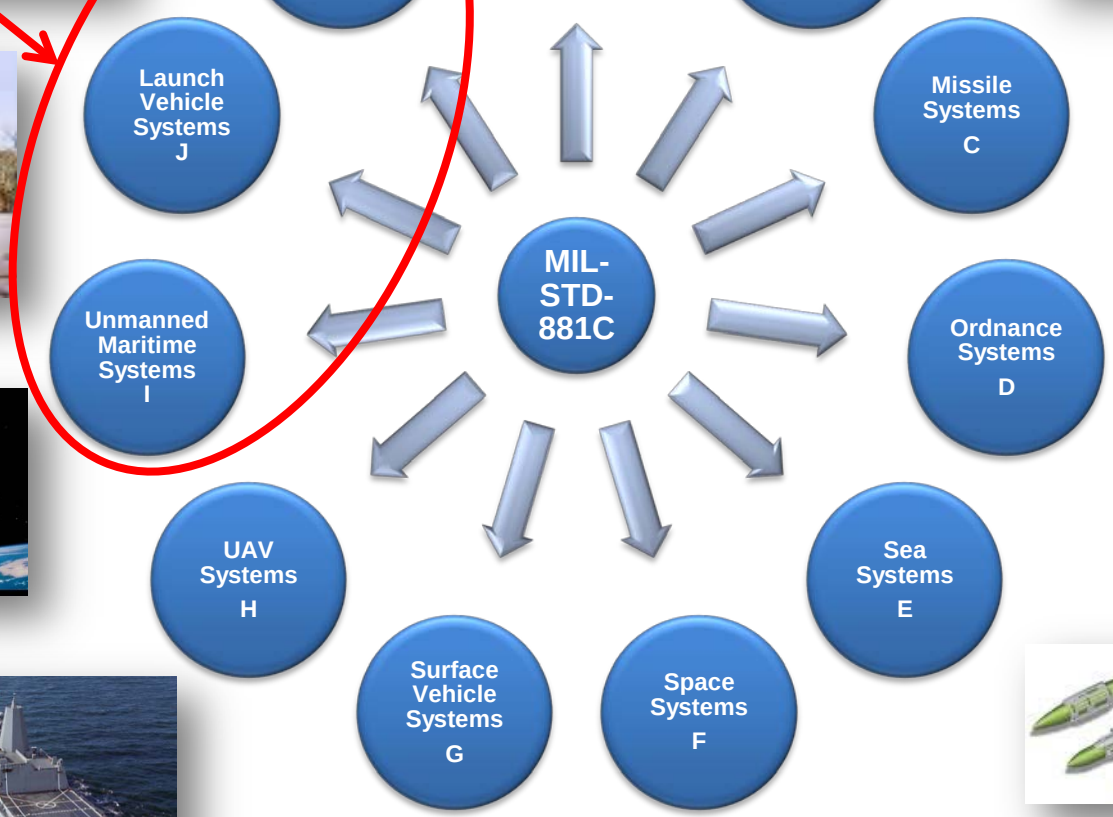
- Derived from MIL-STD-881C
- **Product-oriented** WBS structure composed of hardware, software, services, data, and facilities elements
- Created by CWIPT at least 60 days prior to RFP release

Purpose: Achieve a consistent application of the WBS for <u>all programmatic needs</u>

MIL-STD 881C Appendices

New in MIL-STD-881C





WBS Levels

Level 1
- Entire System

Level 2
- Major Elements of the System (Prime Mission Product)

Level 3
- Subordinate Items to Level 2 Elements

Level 4
- Lower level elements for high-risk, high-technical, or high-interest products

★ Level of reporting required on all program, contract, and subcontract plans

MIL-STD-881C
Appendix C: Missile Systems

Product Elements (shown to Level 3)

	Level 1	Level 2	Level 3
1.0	Missile System		
1.1		Air Vehicle	
1.1.1			Airframe
1.1.2			Propulsion Subsystem 1...n (Specify)
1.1.3			Power and Distribution
1.1.4			Guidance
1.1.5			Navigation
1.1.6			Controls
1.1.7			Communications
1.1.8			Payload
1.1.9			Reentry System
1.1.10			Post Boost System
1.1.11			Ordnance Initiation Set
1.1.12			On Board Test Equipment
1.1.13			On Board Training Equipment
1.1.14			Auxiliary Equipment
1.1.15			Air Vehicle Software Release 1...n
1.1.16			Air Vehicle Integration, Assembly, Test and Checkout
1.2		Encasement Device	
1.2.1			Encasement Device Integration, Assembly, Test and Checkout
1.2.2			Encasement Device Structure
1.2.3			Encasement Device Software Release 1...n
1.2.4			Other Encasement Device Subsystems 1...n (Specify)
1.3		Command and Launch	
1.3.1			Command and Launch Integration, Assembly, Test and Checkout
1.3.2			Surveillance, Identification and Tracking Sensors
1.3.3			Launch and Guidance Control
1.3.4			Communications
1.3.5			Launcher Equipment
1.3.6			Auxiliary Equipment
1.3.7			Booster Adapter
1.3.8			Command and Launch Software Release 1...n
1.3.9			Other Command and Launch 1...n (Specify)
1.4		Missile System Software Release 1...n	
1.5		Missile System Integration, Assembly, Test and Checkout	

MIL-STD-881C
Appendix L: Common Elements

Elements of cost consistent across all DoD acquisition programs

	Level 1	Level 2	Level 3
1.6		System Engineering	
1.7		Program Management	
1.8		System Test and Evaluation	
1.8.1			Development Test and Evaluation
1.8.2			Operational Test and Evaluation
1.8.3			Mock-ups / System Integration Labs (SILs)
1.8.4			Test and Evaluation Support
1.8.5			Test Facilities
1.9		Training	
1.9.1			Equipment
1.9.2			Services
1.9.3			Facilities
1.10		Data	
1.10.1			Technical Publications
1.10.2			Engineering Data
1.10.3			Management Data
1.10.4			Support Data
1.10.5			Data Depository
1.11		Peculiar Support Equipment	
1.11.1			Test and Measurement Equipment
1.11.2			Support and Handling Equipment
1.12		Common Support Equipment	
1.12.1			Test and Measurement Equipment
1.12.2			Support and Handling Equipment
1.13		Operational/Site Activation	
1.13.1			System Assembly, Installation and Checkout on Site
1.13.2			Contractor Technical Support
1.13.3			Site Construction
1.13.4			Site/Ship/Vehicle Conversion
1.13.5			Sustainment/Interim Contractor Support
1.14		Industrial Facilities	
1.14.1			Construction/Conversion/Expansion
1.14.2			Equipment Acquisition or Modernization
1.14.3			Maintenance (Industrial Facilities)
1.15		Initial Spares and Repair Parts	

Program WBS

- Prepared by Government Program Office
- Developed in accordance with MIL-STD-881C
- Contains “Top-Level” WBS, covering the entire program
- Forms the basis of all CSDR Plans, Program Resource Distribution Table, and submission frequency
- Ties to the Cost Analysis Requirements Description (CARD)

Creating a Program WBS

- **Step 1:**
  - Determine which MIL-STD-881C Appendix applies to the Program
- **Step 2:**
  - Use WBS from MIL-STD-881C as starting point
- **Step 3:**
  - Expand WBS below Level 3 if necessary
  - Level 4 elements from the MIL-STD-881C Appendix should be used if available
- **Step 4:**
  - Add Common Elements from Appendix L to Level 2 or below

Aircraft System Program WBS

(MIL-STD-881C, Appendix A)

WBS Element Code	WBS Element Name
1.0	Aircraft System - F-51 Fighter
1.1	Air Vehicle
1.1.1	Airframe
1.1.2	Propulsion
1.1.3	Vehicle Subsystems
1.1.4	Avionics
1.1.5	Armament/Weapons Delivery
1.1.6	Auxiliary Equipment
1.1.7	Furnishings and Equipment
1.1.8	Air Vehicle Software Release 1...n
1.1.9	Air Vehicle Integration, Assembly, Test, and Checkout
1.2	System Engineering
1.3	Program Management
1.4	System Test and Evaluation
1.5	Training
1.6	Data
1.7	Peculiar Support Equipment
1.8	Common Support Equipment
1.9	Operational/Site Activation
1.10	Industrial Facilities
1.11	Initial Spares and Repair Parts

Product-Oriented WBS Elements

Common WBS Elements

Prime Contract WBS

- Prepared by Government Program Office in coordination with contractor (when applicable)
- Derived from the Program WBS
- Specific to a single contract and single contractor
- Contains a **product-oriented** MIL-STD-881C compliant WBS
- Serves as the starting point for developing direct reporting subcontractor(s) WBS

Creating a Prime Contract WBS

- **Step 1:**
  - Determine which elements from Program WBS are applicable to the contract
- **Step 2:**
  - Determine which MIL-STD-881C appendix applies to product under contract
- **Step 3:**
  - Expand the product-oriented WBS elements beyond Level 3 to accommodate:
    - High-value, high-risk, and high-technical-interest items
    - Subcontracted items
    - Items with no previous historical data
  - Level 4 elements from the MIL-STD-881C Appendix should be used if available
- **Step 4:**
  - Expand common WBS elements beyond Level 2, if applicable

Example Prime Contract WBS for a Lead System Integrator

WBS element 1.0 tailored to correspond to MDAP name

WBS Elements that are considered high-value, high-risk, and high-technical-interest are broken out beyond Level 3

WBS Element Code	WBS Element Name
1.0	F-51 Fighter
1.1	Air Vehicle
1.1.1	Airframe
1.1.1.1	Airframe Integration, Assembly, Test and Checkout
1.1.1.2	Fuselage
1.1.1.3	Wing
1.1.1.4	Empennage
1.1.1.5	Nacelle
1.1.1.6	Other Airframe Components 1...n (Specify)
1.1.2	Propulsion
1.1.3	Vehicle Subsystems
1.1.3.1	Vehicle Subsystem Integration, Assembly, Test, and Checkout
1.1.3.2	Flight Control Subsystem
1.1.3.3	Auxiliary Power Subsystem
…	…
1.1.3.12	Vehicle Subsystem Software Release 1...n
1.1.3.13	Other Subsystems 1...n (Specify)
1.1.4	Avionics
1.1.4.1	Avionics Integration, Assembly, Test, and Checkout
…	…
1.1.4.13	Other Avionics Subsystems 1...n (Specify)
1.1.5	Armament/Weapons Delivery
1.1.6	Auxiliary Equipment
1.1.7	Furnishings and Equipment
1.1.8	Air Vehicle Software Release 1...n
1.1.9	Air Vehicle Integration, Assembly, Test, and Checkout
1.2	System Engineering

Example Prime Contract WBS (cont.)

Common WBS elements are expanded beyond Level 2 (if applicable)

1.2	System Engineering
1.3	Program Management
1.4	System Test and Evaluation
1.4.1	Development Test and Evaluation
1.4.2	Operational Test and Evaluation
1.4.3	Mock-ups / System Integration Labs (SILs)
1.4.4	Test and Evaluation Support
1.4.5	Test Facilities
1.5	Training
1.5.1	Equipment
1.5.2	Services
1.5.3	Facilities
1.6	Data
1.6.1	Technical Publications
1.6.2	Engineering Data
1.6.3	Management Data
1.6.4	Support Data
1.6.5	Data Depository
1.7	Peculiar Support Equipment
1.7.1	Test and Measurement Equipment
1.7.2	Support and Handling Equipment
1.8	Common Support Equipment
1.8.1	Test and Measurement Equipment
1.8.2	Support and Handling Equipment
1.9	Operational/Site Activation
1.9.1	System Assembly, Installation and Checkout on Site
1.9.2	Contractor Technical Support
1.9.3	Site Construction
1.9.4	Site/Ship/Vehicle Conversion
1.9.5	Sustainment/Interim Contractor Support
1.10	Industrial Facilities
1.10.1	Construction/Conversion/Expansion
1.10.2	Equipment Acquisition or Modernization
1.10.3	Maintenance (Industrial Facilities)
1.11	Initial Spares and Repair Parts
	Subtotal Cost
	Reporting Contractor G&A
	Reporting Contractor Undistributed Budget
	Reporting Contractor Management Reserve
	Reporting Contractor FCCM
	Total Cost
	Reporting Contractor Profit/Loss or Fee
	Total Price

Summary Elements

Program/Contract Relationship

Program WBS

WBS Element Code	WBS Element Name
1.0	Aircraft System - F-51 Fighter
1.1	Air Vehicle
1.1.1	Airframe
1.1.2	Propulsion
1.1.3	Vehicle Subsystems
1.1.4	Avionics
1.1.5	Armament/Weapons Delivery
1.1.6	Auxiliary Equipment
1.1.7	Furnishings and Equipment
1.1.8	Air Vehicle Software Releases
1.1.9	Air Vehicle Integration, Assembly, Test, and Checkout
1.2	System Engineering
1.3	Program Management
1.4	System Test and Evaluation
1.5	Training
1.6	Data
1.7	Peculiar Support Equipment
1.8	Common Support Equipment
1.9	Operational/Site Activation
1.10	Industrial Facilities
1.11	Initial Spares and Repair Parts

Contract WBS

WBS Element Code	WBS Element Name
1.0	F-51 Fighter
1.1	Air Vehicle
1.1.1	Airframe
1.1.1.1	Airframe Integration, Assembly, Test and Checkout
1.1.1.2	Fuselage
1.1.1.3	Wing
1.1.1.4	Empennage
1.1.1.5	Nacelle
1.1.2	Propulsion
1.1.3	Vehicle Subsystems
1.1.4	Avionics
1.1.4.1	Avionics Integration, Assembly, Test, and Checkout
1.1.4.2	Communication/Identification
1.1.4.3	Navigation/Guidance
1.1.4.3.1	Navigation
1.1.4.3.1.1	Navigation Hardware
1.1.4.3.1.2	Navigation Software
1.1.4.3.2	Guidance
1.1.4.4	Mission Computer/Processing
…	…
1.1.4.12	Avionics Software Releases
1.1.4.13	Other Avionics Subsystems A
1.1.5	Armament/Weapons Delivery
1.1.6	Auxiliary Equipment
1.1.7	Furnishings and Equipment
1.1.8	Air Vehicle Software Releases
1.1.9	Air Vehicle Integration, Assembly, Test, and Checkout
	[Common Elements]

Level 3 Program WBS Elements Expanded to Levels 4 and 5 of Contract WBS

Subcontract WBS

- Prepared by the Government Program Office, in coordination with Contractor (when applicable)
- Specific to a single subcontract and single subcontractor
- Relates to specific products within the Prime Contract WBS
- Contains a “product-oriented” MIL-STD-881C compliant WBS, which may be different than the Appendix used for the Prime Contract WBS
- Total Price of Subcontract should appear as a Cost in the specific element of the Prime WBS

Creating a Subcontract WBS

- **Step 1:**
  - Identify the WBS elements from the Prime Contract WBS for which the subcontractor is responsible
- **Step 2:**
  - Determine which MIL-STD-881C Appendix fits the subcontractor scope of work:
    a) Use Appendix B (Electronic Systems) if the subcontractor SOW relates to a single item on the prime contractor's WBS even if the end item is not an Electronic System
    b) Use Appendix B if the subcontractor SOW relates to more than one WBS element on the Prime Contract WBS, and if the items may be logically grouped into a single package of work
    c) Use the prime's WBS if a subcontractor's SOW touches multiple items on the prime's WBS and it would not be logical to regroup these elements in Appendix B (this is a rare implementation)
- **Step 3:**
  - Expand the product-oriented WBS elements to Level 3 and beyond
- **Step 4:**
  - Add common WBS elements (Appendix L) to Level 2 or beyond

Prime/Subcontract Relationship

Prime Contract WBS
(MIL-HDBK-881A Appendix C – Missile System)

WBS ELEMENT CODE	WBS REPORTING ELEMENTS
1.0	MIM-1000A Missile System
1.1	Air Vehicle
1.1.1	Propulsion (Stages I...n,]
1.1.2	Payload
1.1.2.1	Warhead
1.1.2.2	Safe Arm Device
1.1.2.3	Payload Integration, Assembly, Test & Checkout
1.1.3	Airframe
1.1.4	Reentry System
1.1.5	Post Boost System
1.1.6	Guidance and Control
1.1.6.1	Guidance Section
1.1.6.1.1	Radio Frequency (RF) Seeker
1.1.6.1.2	Guidance Section Software
1.1.6.2	Control Section
1.1.6.3	G&C Integration, Assembly, Test & Checkout
1.1.7	Ordnance Initiation Set
1.1.8	Airborne Test Equipment
1.1.9	Airborne Training Equipment
1.1.10	Auxiliary Equipment
1.1.11	Integration, Assembly, Test and Checkout
1.2	Command and Launch
1.2.1	Surveillance, Identification and Tracking Sensors
1.2.2	Launch and Guidance Control
1.2.3	Communications
1.2.4	Command and Launch Applications Software
1.2.5	Command and Launch System Software
1.2.6	Launcher Equipment
1.2.6.1	Canister
1.2.6.2	Canister/Missile Integration, Assembly, Test & Checkout
1.2.6.3	Command & Launch Unit
1.2.7	Auxiliary Equipment
1.2.8	Booster Adapter
1.3	System Engineering/Program Management

WBS Element 1.0 from Subcontract WBS directly corresponds to WBS element 1.1.6.1.1 from Prime Contract WBS

Subcontract WBS
(MIL-HDBK-881A Appendix B – Electronic/Automated Software System)

WBS ELEMENT CODE	WBS REPORTING ELEMENTS
1.0	Radio Frequency (RF) Seeker
1.1	Prime Mission Product (PMP)
1.1.1	Antenna
1.1.2	Power Supply
1.1.3	Seeker Radome
1.1.4	Seeker Housing
1.1.5	Power Supply
1.1.6	PMP Applications Software
1.1.7	PMP System Software
1.1.8	Integration, Assembly, Test and Checkout
1.2	Platform Integration
1.3	System Engineering/Program Management
1.4	System Test and Evaluation
1.5	Training
1.6	Data
1.7	Peculiar Support Equipment
1.8	Common Support Equipment
1.9	Operational/Site Activation
1.10	Industrial Facilities
1.11	Initial Spares and Repair Parts

New in MIL-STD-881C

- Three new Appendices were added:
  - Unmanned Maritime Systems, Launch Vehicles, and Automated Information Systems
- WBS defined to Level 4 or 5 for some appendices
  - WBS is still mandatory to Level 3
  - For reporting below Level 3, MIL-STD-881C Level 4/5 elements should be used if available
- Includes a mechanism for expanding WBS for program-unique items and new technologies
  - Elements called “Other [Component] 1…n (Specify)” and similar
- WBS elements follow a standard numbering scheme

MIL-STD-881C was implemented in October 2011, superseding MIL-HDBK 881A

MIL-STD-881C Implementation

- New programs
  - Definition: A Pre-MDAP or MAIS program about to enter the TD phase or a program with no current CSDR reporting
  - Must utilize MIL-STD-881C WBS for all CSDR Plans
- Existing programs
  - Definition: Any active MDAP or MAIS Program with approved CSDR plans and active reporting
  - New contracts issued within the current phase should use MIL-STD-881C WBS, unless the CWIPT documents a need to maintain the existing WBS
  - When the program transitions to the next acquisition phase, the MIL-STD-881C WBS should be used
    - Requests for exceptions must be presented to DCARC and DDCA

MIL-STD-881C Implementation

1…n Construct for a related set of elements

MIL-STD 881C Appendix A

WBS Element Code	WBS Element Name
1.0	F-51 Fighter
1.1	Air Vehicle
…	…
1.1.7	Furnishings and Equipment
1.1.8	Air Vehicle Software Release 1...n
1.1.9	Air Vehicle Integration, Assembly, Test, and Checkout

WBS Implementation

WBS Element Code	WBS Element Name
1.0	F-51 Fighter
1.1	Air Vehicle
…	…
1.1.7	Furnishings and Equipment
1.1.8	Air Vehicle Software Releases
1.1.8.1	Air Vehicle Software Release 1
1.1.8.2	Air Vehicle Software Release 2
1.1.8.3	Air Vehicle Software Release 3
1.1.9	Air Vehicle Integration, Assembly, Test, and Checkout

1…n Construct for independent components

MIL-STD 881C Appendix A

WBS Element Code	WBS Element Name
1.0	F-51 Fighter
1.1	Air Vehicle
1.1.1	Airframe
1.1.1.1	Airframe Integration, Assembly, Test and Checkout
1.1.1.2	Fuselage
1.1.1.3	Wing
1.1.1.4	Empennage
1.1.1.5	Nacelle
1.1.1.6	Other Airframe Components 1...n (Specify)
1.1.2	Propulsion

WBS Implementation

WBS Element Code	WBS Element Name
1.0	F-51 Fighter
1.1	Air Vehicle
1.1.1	Airframe
1.1.1.1	Airframe Integration, Assembly, Test and Checkout
1.1.1.2	Fuselage
1.1.1.3	Wing
1.1.1.4	Empennage
1.1.1.5	Nacelle
1.1.1.6	Stealth Special Airframe Part A
1.1.1.7	Stealth Special Airframe Part B
1.1.2	Propulsion

Advanced WBS Development

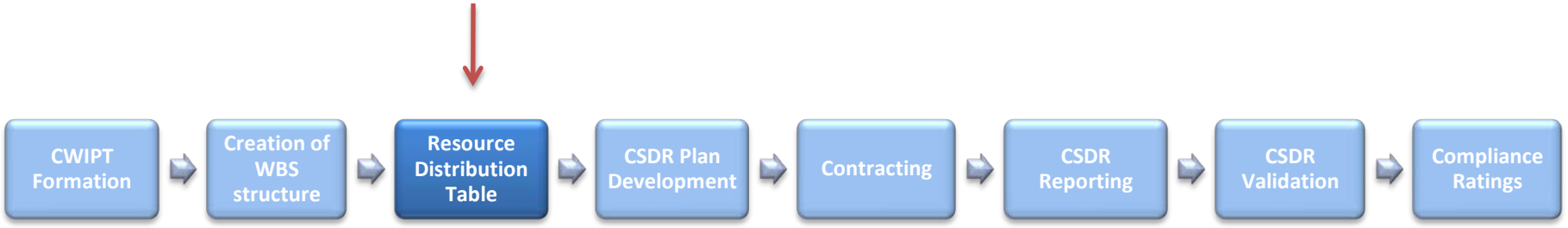
- Common challenges not addressed here
  - Multiple Variants
  - Multiple CLINs
  - Multiple Phases included on one contract
    - Example: Production and Sustainment must have separate plans
  - Implementation of MAIS and CLS reporting
  - IDIQ contracts and Support contracts
  - Special cases of expandable 1…n elements in MIL-STD-881C

WBS Rules and Conventions

- **Always:**
  - Comply with MIL-STD-881C
  - Report to Level 3 or below for hardware items
  - Report to Level 2 or below for common elements
  - Use a logical numbering scheme for WBS element codes (1.0, 1.1, 1.1.1, etc.)
  - Specify military designations, e.g., AN/APG-77
- **Never:**
  - Change the structure of a MIL-STD-881C appendix
  - Change the sequencing of MIL-STD-881C elements
  - Change the names of MIL-STD-881C elements
  - Have a single child WBS element
  - Leave “1…n (Specify)” or “Other” in the final WBS

Resource Distribution Table

Completed at least 60 days prior to RFP release



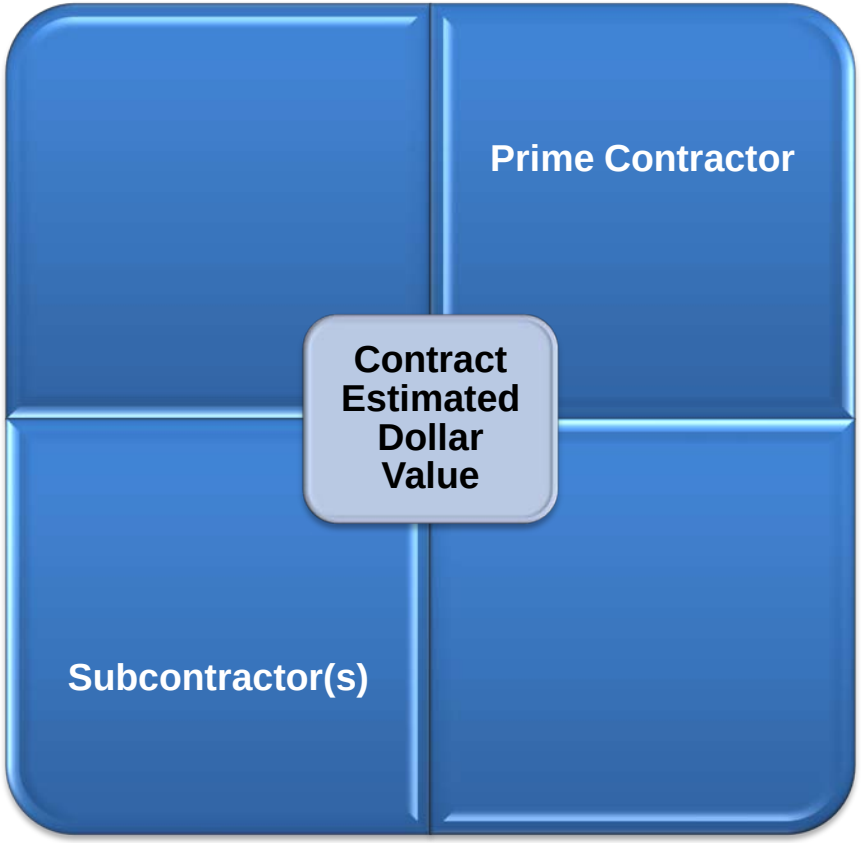
Resource Distribution Table (RDT)

- Primary mechanism for determining which companies meet requirement for CSDR reporting
- Maps government organizations, prime contracts, subcontracts, and GFE contracts and associated dollar values on a specific program
- Indicates which WBS elements are applicable to each firm
- Developed by the lead government cost analyst on the CWIPT
- Submitted to DCARC prior to RFP release

Resource Distribution Table

Program RDT

Contract RDT



Prime Contractor vs. Subcontractor

- **Definitions:**
  - Prime Contractor, i.e., a company whose contractual customer is the government
  - Subcontractor, i.e., a company whose contractual customer is another contractor
    - **Direct-Reporting Subcontractor**
      - Delivers cost reports directly to DCARC (contract > $50M)
      - Summary subcontract values are in Prime Contractor's cost reports
    - **Non-Reporting Subcontractor**
      - Not required to submit cost reports to DCARC (contract < $50M)
      - Below dollar-threshold items that are included in the Prime Contractor's cost reports

Government Furnished Equipment (GFE)

- PM's for ACAT I Programs often procure end items from other government program offices and provide those items to the Prime as Government Furnished Equipment (GFE).
- Funds used to procure GFE by the ACAT I PM are under same CSDR requirements as funds used to procure Contractor Furnished Equipment (CFE)
  - GFE Contracts exceeding reporting thresholds are subject to CSDR reporting requirements (contracts > $50M)
  - The ACAT I PM is responsible for developing the GFE CSDR Contract Plan and generating/delivering CDRLs in order to obtain CSDR data

Creating an RDT

- **Step 1:**
  - Use DCARC's RDT template: (http://dcarc.pae.osd.mil/Policy/csdrForms.aspx)
- **Step 2:**
  - Insert Program WBS for Program RDT
  - Insert Contract WBS for Contract RDT
- **Step 3:**
  - Complete meta-data sections: contractor names, locations, estimated dollar values
- **Step 4:**
  - Enter an "X" for each WBS element that is applicable to the program for Program RDT
  - Enter an "X" for each WBS element that is applicable to the firm for Contract RDT

Program RDT Example

★ Total Program RDT Dollar Value reconciles with budget for given acquisition phase

Key Organizations

	Program Office	Prime Contractor		Subcontractors			GFE		
Prime Contractor or Sub-Contractor	Program Office	Total	In-House	Total	Sub 1	Sub 2	Total	Prime	Prime
Description	Acquisition Manager	Xample Missile			Guidance Section	Propulsion		Warhead	Test & Evaluation
Contractor/Organization Name	MISSILECOM	DCARC - Missile Division			Guide Company	Rocket Motors R Us		Boom Corp.	Gov Test Org
Contractor/Organization Location	Washington, DC	Washington, DC			Richmond, VA	Buffalo, NY		Baltimore, MD	Los Alamos, NM
Contract Number	N/A	X00059-09-C-1234			X00059-09-C-1234	X00059-09-C-1234		X00136-09-C-2468	MIPR
Total Program Office or Contract/Effort Value (Estimated), TY$M	$150.0	$1,237.0	$953.0	$284.0	$250.0	$34.0	$117.0	$65.0	$52.0
Subtotal Software Contract Value (Estimated), TY$M	$0.0	$104.0	$72.0	$32.0	$32.0	$0.0	$0.0	$0.0	$0.0
Government Organization or PARM	MISSILECOM	MISSILECOM			N/A	N/A		MISSILECOM	Gov Test Org
CCDR Direct Reporting per CWIPT (Yes/No)	N/A	N/A	Yes		Yes	No		Yes	Yes
SRDR Direct Reporting per CWIPT (Yes/No)	N/A	N/A	Yes		Yes	No		No	No

Program WBS

WBS NUMBERS	WBS Element Name L1 / L2 / L3								
1.0	Missile System			X					
1.1	Air Vehicle			X					
1.1.1	Propulsion			X			X		
1.1.2	Payload			X				X	
1.1.3	Airframe			X					
1.1.4	Reentry System			N/A					
1.1.5	Post Boost System			N/A					
1.1.6	Guidance and Control			X		X			
1.1.7	Ordnance Initiation Set			N/A					
1.1.8	Airborne Test Equipment			X					
1.1.9	Airborne Training Equipment			X					
1.1.10	Auxiliary Equipment			X					
1.1.11	Integration, Assembly, Test and Checkout			X					
1.2	Command and Launch			X					
1.2.1	Surveillance, Identification and Tracking Sensors			N/A					
1.2.2	Launch and Guidance Control			N/A					
1.2.3	Communications			N/A					
1.2.4	Command and Launch Applications Software			N/A					
1.2.5	Command and Launch System Software			N/A					
1.2.6	Launcher Equipment			X					
1.2.7	Auxiliary Equipment			N/A					
1.2.8	Booster Adapter			N/A					
1.3	System Engineering/Program Management	X		X					
1.4	System Test and Evaluation			X					X

Program RDT Example (cont.)

★ Estimated dollar values are used in conjunction with the CSDR reporting dollar thresholds, to determine which entities will do CSDR reporting

	Program Office	Prime Contractor		Subcontractors			GFE		
Prime Contractor or Sub-Contractor	Program Office	Total	In-House	Total	Sub 1	Sub 2	Total	Prime	Prime
Description	Acquisition Manager	Xample Missile			Guidance Section	Propulsion		Warhead	Test & Evaluation
Contractor/Organization Name	MISSILECOM	DCARC - Missile Division			Guide Company	Rocket Motors R Us		Boom Corp.	Gov Test Org
Contractor/Organization Location	Washington, DC	Washington, DC			Richmond, VA	Buffalo, NY		Baltimore, MD	Los Alamos, NM
Contract Number	N/A	X00059-09-C-1234			X00059-09-C-1234	X00059-09-C-1234		X00136-09-C-2468	MIPR
Total Program Office or Contract/Effort Value (Estimated), TY$M	$150.0	$1,237.0	$953.0	$284.0	$250.0	$34.0	$117.0	$65.0	$52.0
Subtotal Software Contract Value (Estimated), TY$M	$0.0	$104.0	$72.0	$32.0	$32.0	$0.0	$0.0	$0.0	$0.0
Government Organization or PARM	MISSILECOM	MISSILECOM			N/A	N/A		MISSILECOM	Gov Test Org
CCDR Direct Reporting per CWIPT (Yes/No)	N/A	N/A	Yes		Yes	No		Yes	Yes
SRDR Direct Reporting per CWIPT (Yes/No)	N/A	N/A	Yes		Yes	No		No	No

WBS NUMBERS	WBS Element Name L1 / L2 / L3									
1.0	Missile System				X					
1.1		Air Vehicle			X					
1.1.1			Propulsion		X			X		
1.1.2			Payload		X				X	
1.1.3			Airframe		X					
1.1.4			Reentry System		N/A					
1.1.5			Post Boost System		N/A					
1.1.6			Guidance and Control		X		X			
1.1.7			Ordnance Initiation Set		N/A					
1.1.8			Airborne Test Equipment		X					
1.1.9			Airborne Training Equipment		X					
1.1.10			Auxiliary Equipment		X					
1.1.11			Integration, Assembly, Test and Checkout		X					
1.2		Command and Launch			X					
1.2.1			Surveillance, Identification and Tracking Sensors		N/A					
1.2.2			Launch and Guidance Control		N/A					
1.2.3			Communications		N/A					
1.2.4			Command and Launch Applications Software		N/A					
1.2.5			Command and Launch System Software		N/A					
1.2.6			Launcher Equipment		X					
1.2.7			Auxiliary Equipment		N/A					
1.2.8			Booster Adapter		N/A					
1.3		System Engineering/Program Management		X	X					
1.4		System Test and Evaluation			X					X

★ "X" indicates that a company is producing a given WBS element, "N/A" indicates no costs associated with the element

Contract RDT Example

★ Total Contract RDT Dollar Value reconciles with contract value

	Prime Contractor			Subcontractors			Guide Company Subcontractors
Prime Contractor or Sub-Contractor	Total	In-House	IWO	Total	Sub 1	Sub 2	Sub 1
Description	Xample Missile	Xample Missile	Command & Launch		Guidance Section	Propulsion	Seeker
Contractor/Organization Name	DCARC - Missile Division	DCARC - Missile Division	DCARC - West Coast		Guide Company	Rocket Motors R Us	Not-real, Inc.
Contractor/Organization Location	Washington, DC	Washington, DC	San Diego, CA		Richmond, VA	Buffalo, NY	Denver, CO
Contract Number	X00059-09-C-1234	X00059-09-C-1234	X00059-09-C-1234		X00059-09-C-1234	X00059-09-C-1234	X00059-09-C-1234
Total Program Office or Contract/Effort Value (Estimated), TY$M	$1,237.0	$853.0	$100.0	$284.0	$250.0	$34.0	$75.0
Subtotal Software Contract Value (Estimated), TY$M	$104.0	$72.0	$0.0	$32.0	$32.0	$0.0	$0.0
Government Organization or PARM	MISSILECOM				N/A	N/A	N/A
CCDR Direct Reporting per CWIPT (Yes/No)	N/A	Yes	Yes		Yes	No	Yes
SRDR Direct Reporting per CWIPT (Yes/No)	N/A	Yes	No		Yes	No	No

WBS NUMBERS	WBS Element Name L1 L2 L3 L4			
1.0	MIM-1000A Xample Missile System	X		
1.1	Air Vehicle	X		
1.1.1	Propulsion	X		X
1.1.2	Payload	X		
1.1.2.1	Warhead	X		
1.1.2.2	Safe Arm Device	X		
1.1.2.3	Payload Integration, Assembly, Test, & Checkout	X		
1.1.3	Airframe	X		
1.1.4	Reentry System	N/A		
1.1.5	Post Boost System	N/A		
1.1.6	Guidance and Control	X		
1.1.6.1	Guidance Section	X		X
1.1.6.2	Control/Actuators System	X		
1.1.6.3	G&C Application Software	X		
1.1.6.4	G & C Integration, Assembly, Test & Checkout	X		
1.1.7	Ordnance Initiation Set	N/A		
1.1.8	Airborne Test Equipment	X		
1.1.9	Airborne Training Equipment	X		
1.1.10	Auxiliary Equipment	X		
1.1.11	Integration, Assembly, Test and Checkout	X		
1.2	Command and Launch	X	X	

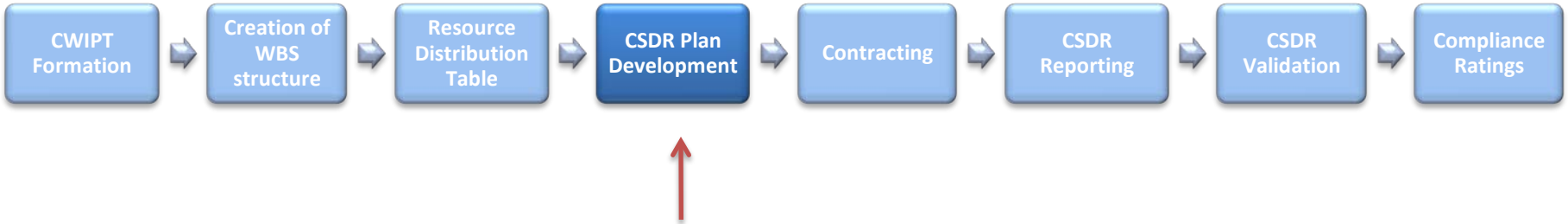
Contract WBS

★ Subcontractor reporting may be required for 2nd tier subcontractors that pass the reporting threshold (contracts > $50M)

RDT Responsibilities

- PM responsible for Program and Contract RDTs prior to RFP according to the DFARS
  - Competitive Awards: Blank Contract RDT inserted in RFP, contractors responsible for submitted completed RDT with proposal
  - Sole-Source Awards: Completed Contract RDT, with input from contractor, inserted in RFP

CSDR Plan Development

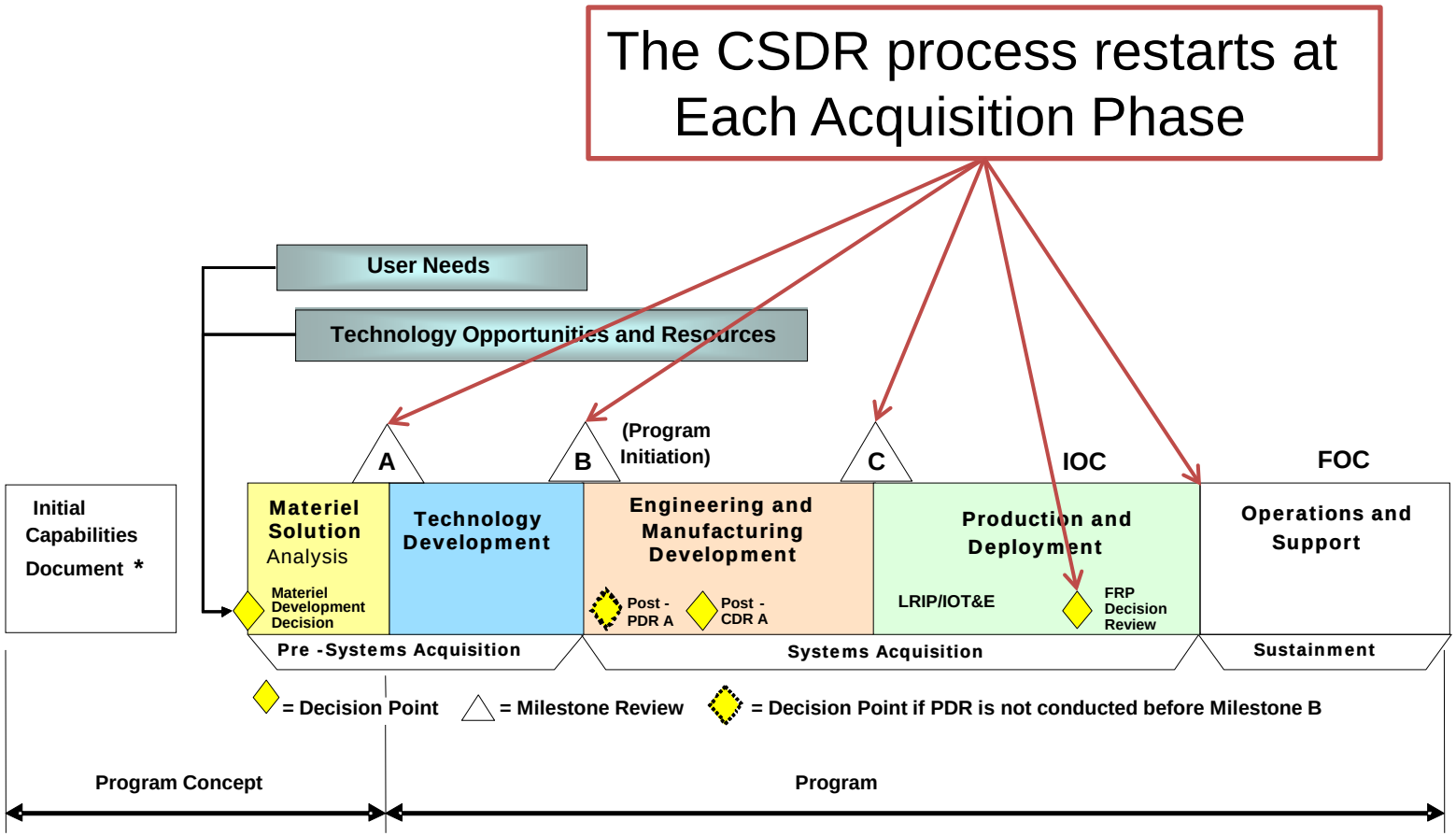


Completed at least 60 days prior to RFP release

CSDR Plans (DD Form 2794)

- Derived from MIL-STD-881C WBS structure
- One overarching Program Plan required per phase, e.g., EMD, LRIP, FRP, Sustainment
- Types: Program, Contract, and Subcontract
- Required prime contract and subcontract plans determined by RDT and CWIPT
- Designate which CSDRs are required for each WBS element
- Establish submission events and frequency of reporting
- cPet tool should be used to create all Program and Contract plans

CSDR Plans and the OSD Acquisition Process

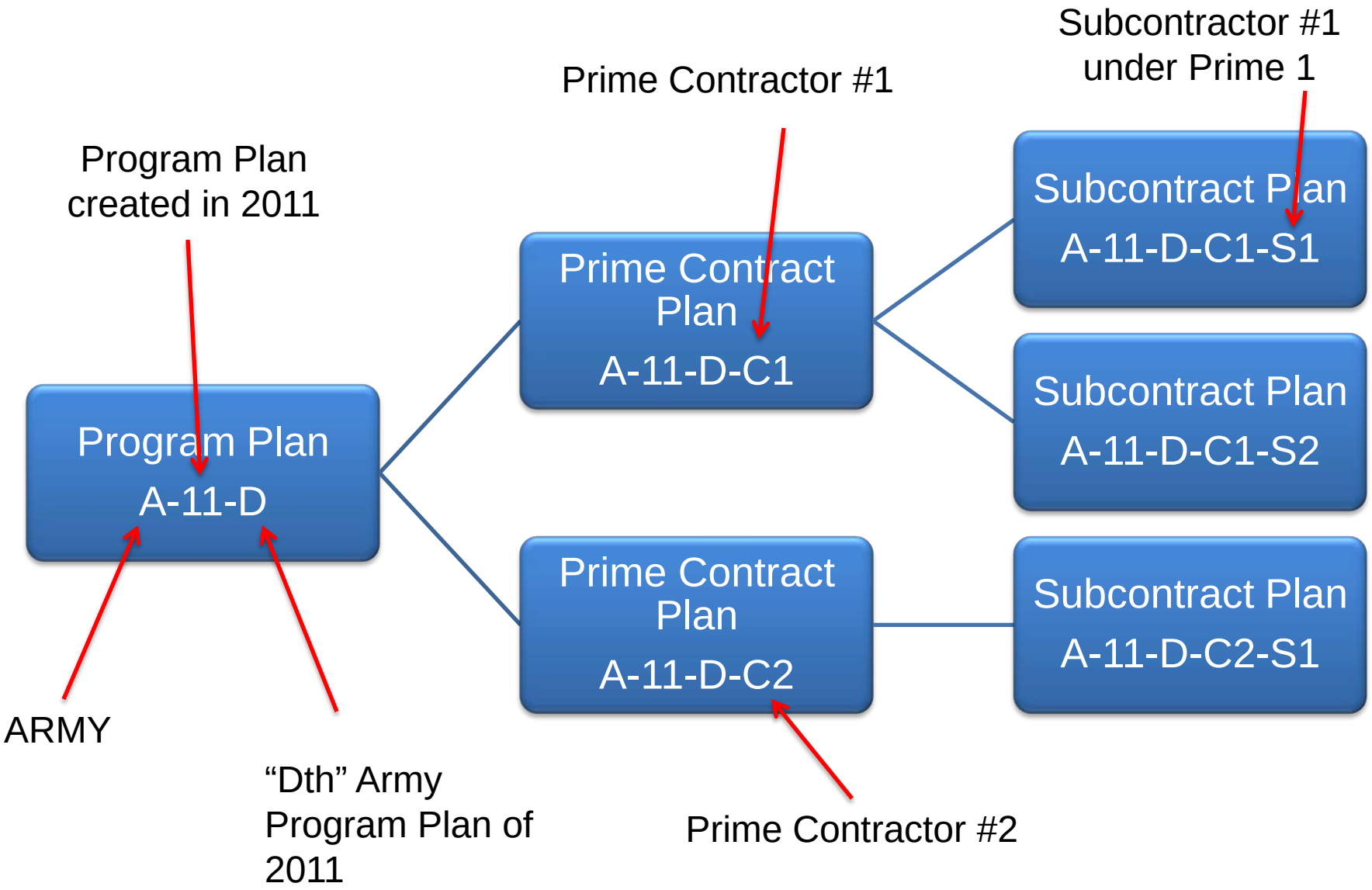


CSDR Plan Number Methodology

AA - YY - X – C# - S#

- **AA** is either:
  - A (Army)
  - AF (Air Force)
  - D (Department of Defense)
  - N (Navy)
- **YY**: Year the program plan was created (e.g. 97, 09)
- **X**: Alphabetical plan number of the year (e.g. A = 1st plan, B = 2nd plan, C = 3rd plan, etc.)
- **C#**: Prime Contractor Number (e.g. C1 = Prime #1, C2 = Prime #2)
- **S#**: Subcontractor Number (e.g. S1 = Sub #1)
- Plan revisions are denoted by an "(R)" after the plan number.
  - (R) = first revision, (R1) = second revision, (R2) = third revision, etc.
- Example: A-11-D-C1-S2(R)
  - Army plan – Program Plan created in 2011 – the "Dth" Army plan of 2011 – Sub #2 under Prime #1 – First revision

CSDR Plan Development



Program Plan

- Prepared by Government Program Office
- Developed in accordance with MIL-STD-881C
- Summarizes all CSDR requirements for an acquisition phase of a given program
- Program Plan is not placed on contract; no data submitted directly against it
- Forms the basis of all Prime Contract and Subcontract Plans
- Summarizes reporting frequency for all Prime Contract and Subcontract Plans

Program Plan

Metadata (Blocks 1-10)

Required Reports (Block 13)

WBS Element Code and WBS Reporting Elements (Blocks 11-12)

COST AND SOFTWARE DATA REPORTING PLAN

Form Approved OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 8 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.
PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE ABOVE ORGANIZATION.

1. MAJOR PROGR a. NAME:				2. MIL-STD-881 APPENDIX USE	3. SUBMISSION	4. CURRENT SUBMISSION DATE	5. LAST APPROVED PLAN DATE (YYYYMMDD)
b. PHASE/MILESTONE ☐ Pre-A ☐ A ☐ B ☐ C-LRIP ☐ C-FRP ☐ O&S			c. PRIME MISSION PRODUCT		☐ INITIAL ☐ CHANGE		
6a. POINT OF CONTACT (POC) NAME AND ADDRESS (Include ZIP	6b. TELEPHONE NUMBER (Include Area Code)	6c. FAX NUMBER (Include Area	6d. E-MAIL ADDRESS				
7. PLAN TYPE ☐ PROGRAM ☐ CONTRACT (PRIN ☐ CONTRACT (SUB	8. PREPARING ORGANIZATION	9a. CONTRACTOR NAME/ADDRESS i. PERFORMING ORGANIZATION ii. DIVISION	9b. CONTRACT NUMBER	9c. APPROPRIATION ☐ RDT&E ☐ PROCUREMENT ☐ O&M	10. APPROVED PLAN NUM		

11. WBS ELEMENT CODE		12. WBS REPORTING ELEMENTS	13. REPORTS REQUIRED (X if applicable) DD 1921-3 (CBDR): ☐					
a. PROGRAM/ CONTRACT/ SUBCONTRAC	b. CONTRACT/ SUBCONTRAC		a. CWBS DICTIONARY	b. DD 1921 (CDSR)	c. DD 1921-1 (FCHR)	d. DD 1921-2 (PCR)	e. DD 1921-4 (CLSDR)	f. SRDR FORMATS

DD FORM 2734, 20110518 PREVIOUS EDITION IS OBSOLETE

Program Plan (Cont.)

Submission Events (Block 14)

14. CSDR SUBMISSION DATES

a. SUBMISSION	b. FORM(S)	c. EVENT	d. AS OF DATE (YYYYMMDD)	e. DUE DATE (YYYYMMDD)

15. REMARKS

1. Program Overview
2. Contracting Approach
3. Quantity Overview

DD FORM 2794 (PAGE 2), 20110518 PREVIOUS EDITION IS OBSOLETE

Program Plan Language (Block 15)

Contract Plan

- Prepared by Prime Contractor, based on the Program Plan, and approved by the Government Program Office and DCARC
- Contains a MIL-STD-881C compliant WBS
- Specific to a single contractor and single contract
- Details the reporting required for lower level elements that address high-risk, high-value or high-technical-interest areas of the program
- Reflects the collection of cost and software data by reporting elements, report type, and frequency of reporting
- Includes “Summary Elements” that capture a contract’s indirect costs
- May include special instructions for the contractor

Contract Plan: Summary Elements

- **All contract plans must have the following summary elements in Item 11 (WBS Reporting Elements), below the WBS:**

SUBTOTAL COST

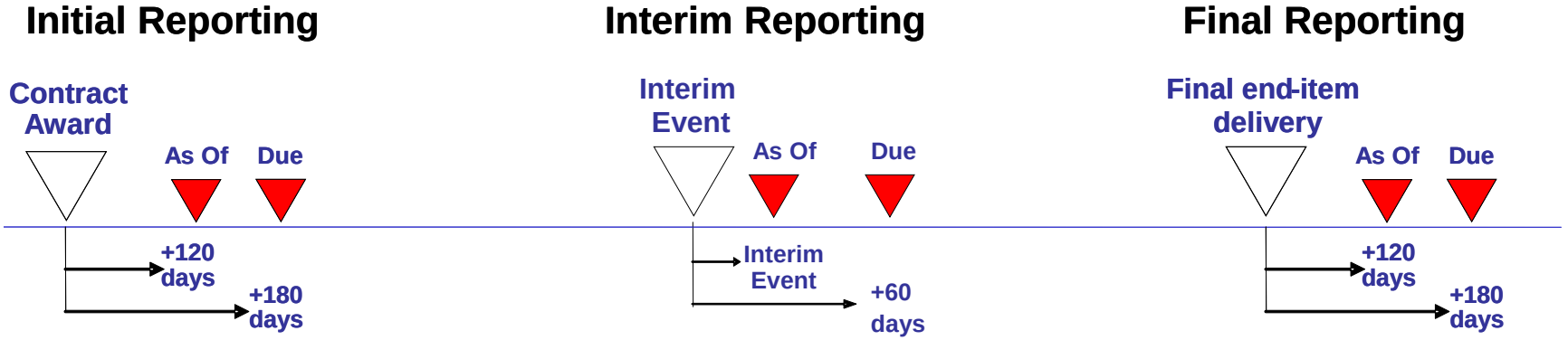
REPORTING CONTRACTOR GENERAL & ADMINISTRATIVE (G&A)
REPORTING CONTRACTOR UNDISTRIBUTED BUDGET
REPORTING CONTRACTOR MANAGEMENT RESERVE
REPORTING CONTRACTOR FACILTIES CAPITAL COST OF MONEY

TOTAL COST

REPORTING CONTRACTOR PROFIT/LOSS OR FEE

TOTAL PRICE

Contract/Subcontract Plan: Submission Events



- All Contract/Subcontract plans must have a CWBS Dictionary event.
  - CWBS Dictionary is due with the first cost report
- If required by the CWIPT, Initial Reports are due 180 Days after contract award to ensure ability to report consistent with CSDR Plan and CDRLs
- Interim Reports:
  - Development Efforts
    - Reports are to be delivered before major milestones or decision points, as well as at the end of the effort
  - Production Programs
    - One report after each fiscal year buy
    - Typically request interim LRIP reports in preparation for FRP
    - Given CA approval, CWIPT can request additional interim reports
- Final Reports due within 180 Days after the final delivery of the end item, and when costs are at least 95% complete

Contract/Subcontract Plan

Metadata:
(Blocks 1-10)

WBS Element Code and Reporting Elements
(Blocks 11-12)

Summary Elements
(Block 12)

Required Reports
(Block 13)

COST AND SOFTWARE DATA REPORTING PLAN

Form Approved OMB No. 0704-0188

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b. PHASE/MILESTONE: ☐ Pre-A ☐ A ☐ B ☐ C-LRIP ☐ C-FRP ☐ O&S	c. PRIME MISSION PRODUCT				☐ INITIAL ☐ CHANGE		
6a. POINT OF CONTACT (POC) NAME AND ADDRESS (Include ZIP	6b. TELEPHONE NUMBER (Include Area Code)		6c. FAX NUMBER (Include Area	6d. E-MAIL ADDRESS			
7. PLAN TYPE ☐ PROGRAM ☐ CONTRACT (PRIM ☐ CONTRACT (SUB)	8. PREPARING ORGANIZATION	9a. CONTRACTOR NAME/ADDRESS i. PERFORMING ORGANIZATION ii. DIVISION		9b. CONTRACT NUMBER	9c. APPROPRIATION ☐ RDT&E ☐ PROCUREMENT ☐ O&M		10. APPROVED PLAN NUM

11. WBS ELEMENT CODE		12. WBS REPORTING ELEMENTS	13. REPORTS REQUIRED (X if applicable) DD 1921-3 (CBDR): ☐					
a. PROGRAM/ CONTRACT/ SUBCONTRAC	b. CONTRACT/ SUBCONTRAC		a. CWBS DICTIONARY	b. DD 1921 (CDSR)	c. DD 1921-1 (FCHR)	d. DD 1921-2 (PCR)	e. DD 1921-4 (CLSDR)	f. SRDR FORMATS

DD FORM 2794, 20110518 PREVIOUS EDITION IS OBSOLETE

Contract/Subcontract Plan (Cont.)

Submission Events (Block 14)

Contract Plan Language (Block 15)

14. CSDR SUBMISSION DATES

a. SUBMISSION	b. FORM(S)	c. EVENT	d. AS OF DATE (YYYYMMDD)	e. DUE DATE (YYYYMMDD)

15. REMARKS

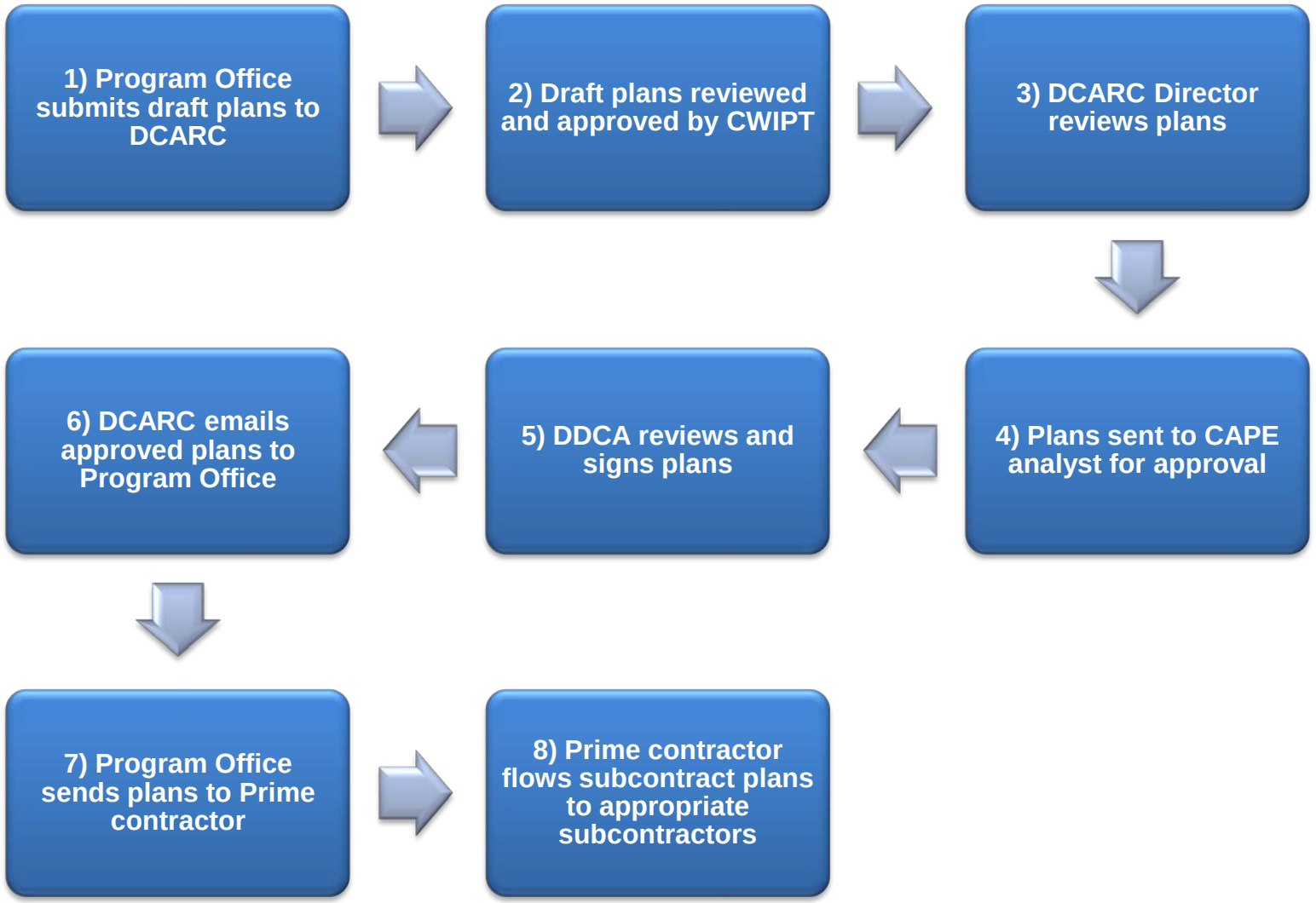
1. Recurring vs. Nonrecurring Definitions
2. Cost Accounting Standards (CAS) Disclosure Statement Differences
3. Progress Curve Reporting (DD Form 1921-2) Unit or Lot Reporting Instructions
4. Standard Contractor Business Data Report (DD Form 1921-3) Language

DD FORM 2794 (PAGE 2), 20110518 PREVIOUS EDITION IS OBSOLETE

Plan Summary Table

	Program Plan	Contract Plan	Subcontract Plan
Responsible Parties	PM and CWIPT	PM, CWIPT, and contractor	PM, CWIPT, contractor, and subcontractor
WBS Level	To Level 3 per Reference (f) or lower to show key subcontracts	To Level 3 per contract scope or lower for key/high-risk elements	To Level 3 per contract scope or lower for key/high-risk elements
Required Delivery	Prior to RFP, Prior to contract and subcontract plans	Prior to RFP Prior to subcontract plan	Upon prime-contract award
Cost Reporting	No	Yes	Yes
Software Reporting	No	Yes	Yes
Special End Notes	Program overview, contracting approach, and unique contractor instructions	Unique contractor instructions	Unique contractor instructions
Report Type/Frequency	Compilation of contract and subcontract plans	Specific to contract and its related direct reporting subs	Specific to contract and consistent with prime contract plan
Contract Number	Contains several contracts	Single contract	Single contract
RDT	Program (including GFE)	Contract	Subcontract
Relationship among plans	One program plan may have many contract/subcontract plans	One contract plan may have many subcontract plans	Subcontract plan has one prime contractor. Subcontract plan may also require second tier subcontract plan(s)

Plan Approval and Revision Process

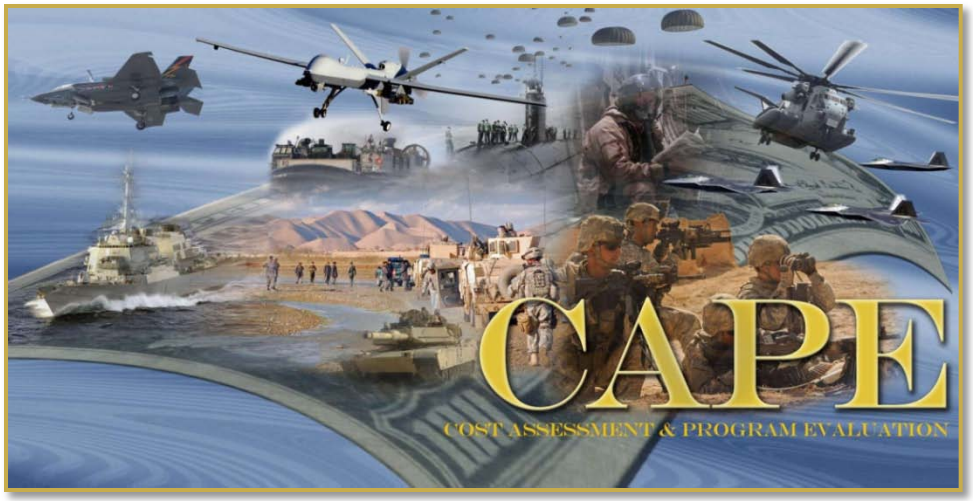


Reasons for Plan Revisions

- All Program, Contract, and Subcontract CSDR Plans are considered “living documents” that are updated as the program requirements, scope, and schedule evolve and change
- Plan revisions ***are*** required under the following conditions:
  - Additional scope added that is not captured by the existing CWBS
  - WBS element name changes
  - Changes in make/buy decisions that effect Level 3 and Level 4 WBS elements
  - New subcontractors added
  - Significant FMS dollars added to accommodate foreign nation participation
  - Contract stop-work or program restructuring
  - Significant program re-baseline efforts
  - Nunn-McCurdy breach
- Plan revisions ***are not*** required for:
  - Changes to submission event dates (these must be requested by the Program Office Lead Reviewer via the CSDR Submit-Review website)

DCARC Information Technology Tools Review

John McGahan
DCARC IT Project Manager
Tecolote Research, Inc.



30 November 2011

DCARC Systems Overview

Defense Cost and Resource Center

Enhancing DoD Cost Analysis

Home | About | Policy & Manuals | CSDR Training | Events | Validation | cPet | CSDR-SR | DACIMS | EVM-CR | Other | dcarcweb@osd.mil

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Contact Us

Relevant Links

- CSDR Manual (Oct 2011)
- Planning Forms and Instructions
- Data Item Descriptions (DIDs) and Forms

What's New

- Sign Up Today for CSDR Training! November 30, 2011 - Fort Worth, TX
- The DCARC Office has moved to the MARK Center
- *** NEW CSDR Manual (May 2011) ***
- *** NEW 2011 DIDs and Forms ***
- Defense Federal Acquisition Regulation Supplement: Cost and Software Data Reporting System (DFARS Case 2008–D027)

Last Updated: 10/28/2011

Metrics

DCARC Summary Data Metrics

Select one of the commodity pictures below for a summary of CSDR data housed in DACIMS

Mission

The DCARC, which is part of OSD Cost Assessment and Program Evaluation (CAPE), exists to collect Major Defense Acquisition Program (MDAP) cost and software resource data and make those data available to authorized Government analysts. This website is the authoritative source of information associated with the Cost and Software Data Reporting (CSDR) system, including but not limited to: policy and guidance, training materials, and data. CSDRs are DoD's only systematic mechanism for capturing completed development and production contract "actuals" that provide the right visibility and consistency needed to develop credible cost estimates. Since credible cost estimates enable realistic budgets, executable contracts and program stability, CSDRs are an invaluable resource to the DoD cost analysis community and the entire DoD acquisition community.

EVM

The EVM Central Repository (CR) is a joint effort between DCARC and OUSD/AT&L to provide centralized reporting, collection, and distribution for Key Acquisition EVM data. The CR provides a reliable source of authoritative EVM data and access for OSD, the Services, and the DoD Components. The CR houses Contract Performance Reports (CPRs), Contract Funds Status Report (CFSR), and the Integrated Master Schedules (IMS) submitted by contractors (and reviewed and approved by Program Management Offices) for ACAT 1C & 1D (MDAP) and ACAT 1A (MAIS) programs. There are now approximately 80 ACAT 1A, 1C, and 1D programs and 210 contracts and tasks reporting data into the EVM-CR.

Authoritative Source for CSDR and EV Data for Major Defense Acquisition Programs
HTTP://DCARC.PAE.OSD.MIL/ - changing to - HTTP://DCARC.CAPE.OSD.MIL/

DCARC Systems Overview

DCARC Defense Cost and Resource Center

Enhancing DoD Cost Analysis

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Relevant Links

- CSDR Manual (Oct 2011)
- Planning Forms and Instructions
- Data Item Descriptions (DIDs) and Forms

New Data Item Descriptions (DIDs) and Forms Available

New DIDs and forms were approved in conjunction with the October 2011 reissuing of DoD 5000.04-M-1. These DIDs shall be implemented on all applicable future contracts that are awarded based on solicitations or requests for proposal issued after October 2011. However, contractors, in coordination with the government program managers, have the option to implement the new DIDs on existing contract actions at no cost to the government.

Go to the official DIDs website and type the DID # (e.g., DI-FNCL-81565) into the Document ID field and hit Submit.

2011 Forms | 2007 Forms

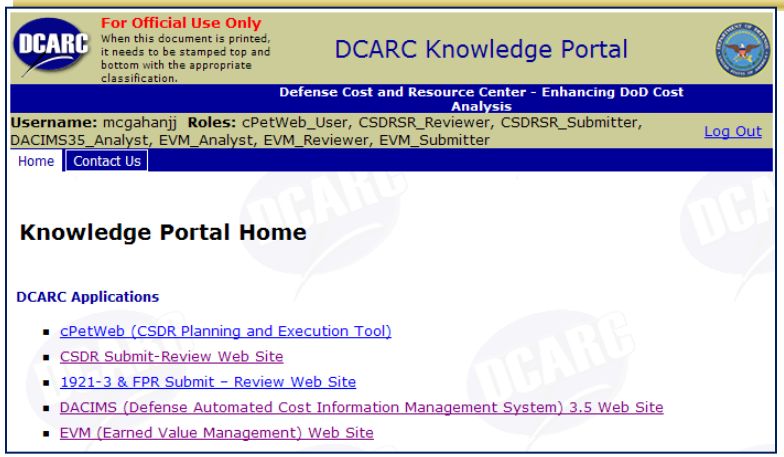
DD Form 1921 (05-18-2011) DI-FNCL-81565C	PDF	1921 Form (Excel)
DD Form 1921-1 (05-18-2011) DI-FNCL-81566C	PDF	1921-1 Form (Excel)
DD Form 1921-2 (05-18-2011) DI-FNCL-81567C	PDF	1921-2 Form (Excel)
DD Form 1921-3 (05-18-2011) DI-FNCL-81765B	PDF	1921-3 Form (Excel)
CWBS DID (05-18-2011) DI-MGMT-81334D	PDF	
SRDR Initial Developer Report (05-25-2011) DI-MGMT-81739B	PDF	SRDR Sample Formats
SRDR Final Developer Report (05-18-2011) DI-MGMT-81740A	PDF	SRDR Instructions

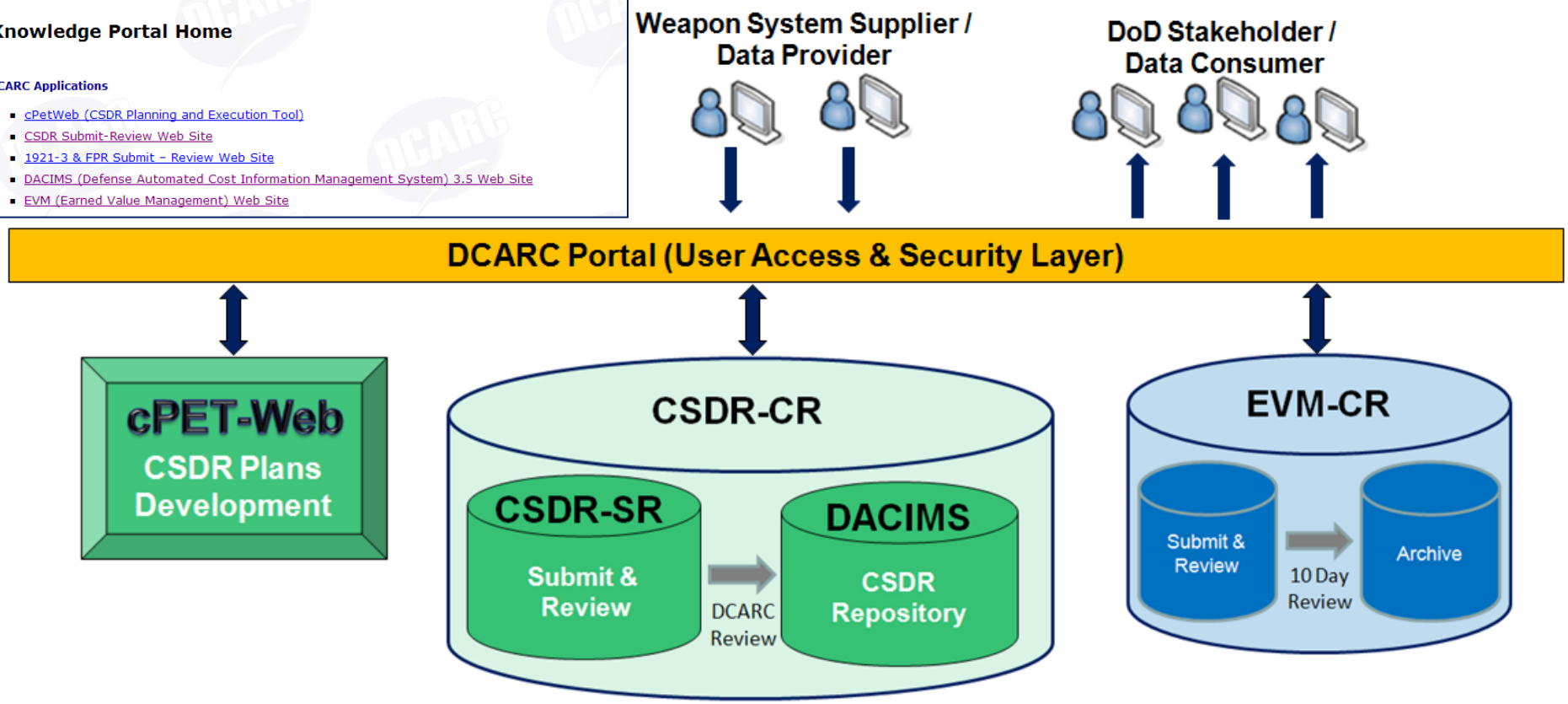
The document below provides a summary of the major changes between the new DIDs and the old CCDR DIDs and SRDR guidance.

Summary of changes to CSDR forms, DIDs, and instructions.

Access latest CSDR guidance, formats, and DIDs

DCARC Systems Overview

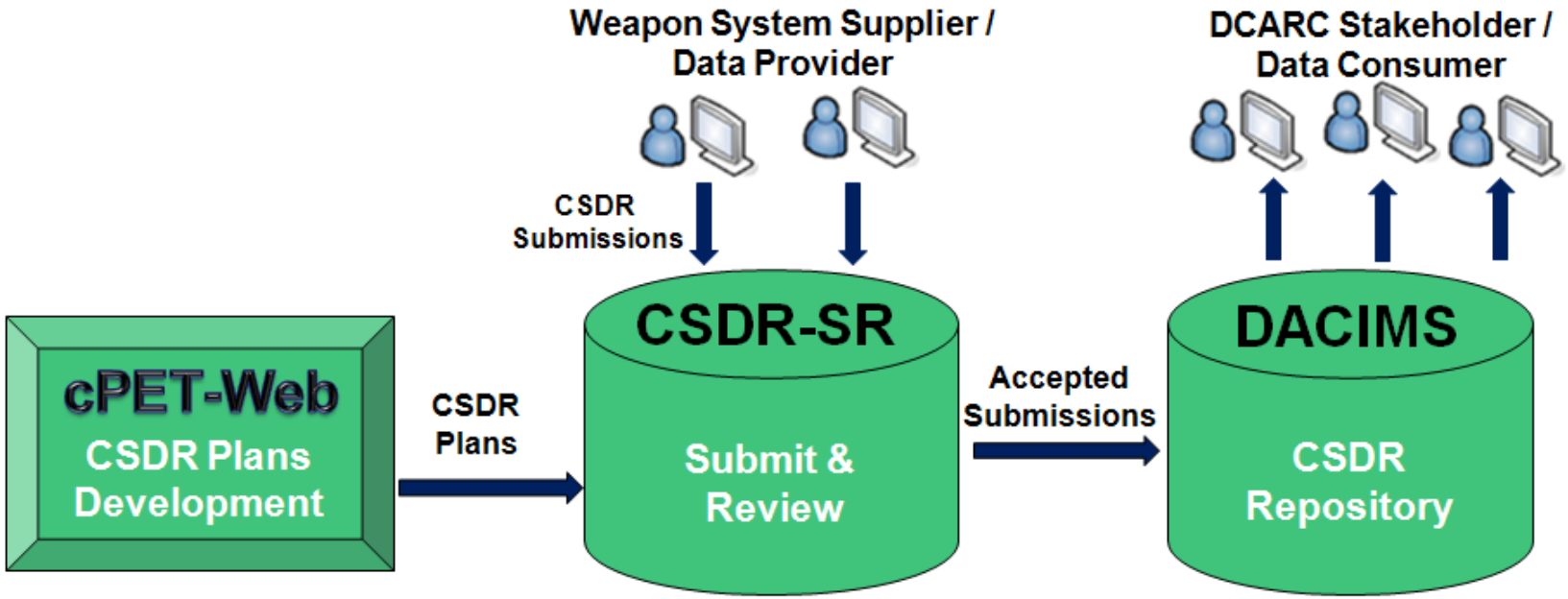




DCARC Portal Provides Single Login Access To CSDR and EVM Systems

CSDR Systems Overview

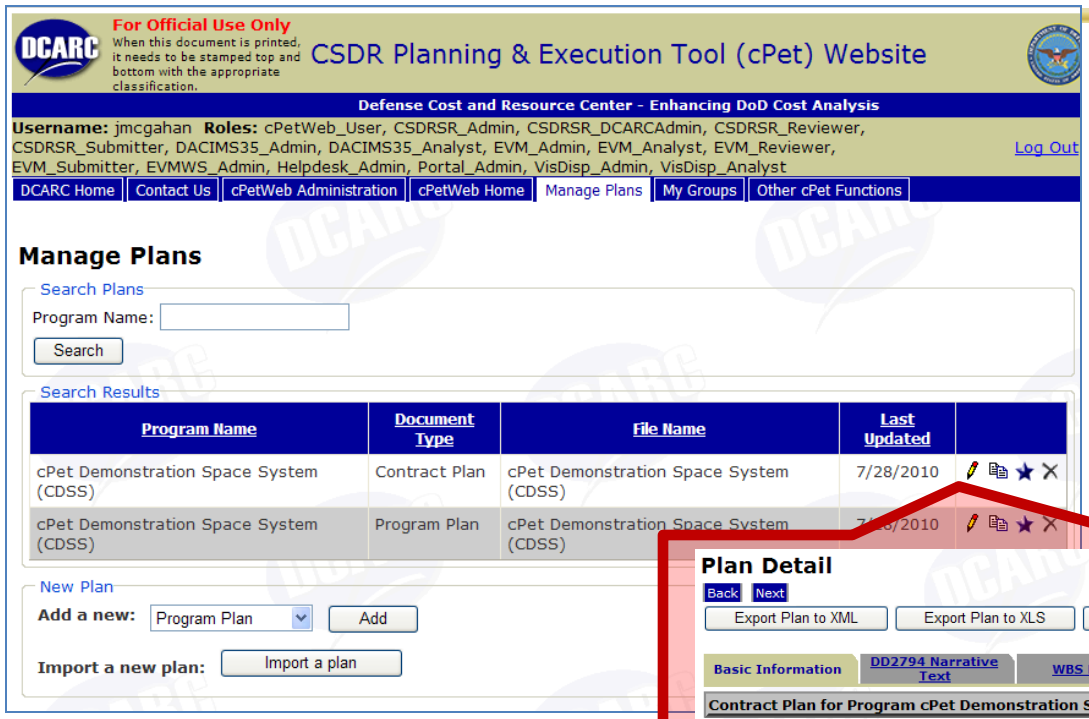
- Key DCARC IT Systems Supporting CSDR Functions
  - cPET (Web): Preparing CSDR Plans, RDT, Validations
  - cPET (Desktop): Preparing CSDR submissions, pre-validation
  - CSDR-SR: Manages CSDR Submission and Review Business Functions
  - DACIMS: CSDR Repository Supporting Cost Estimating Functions

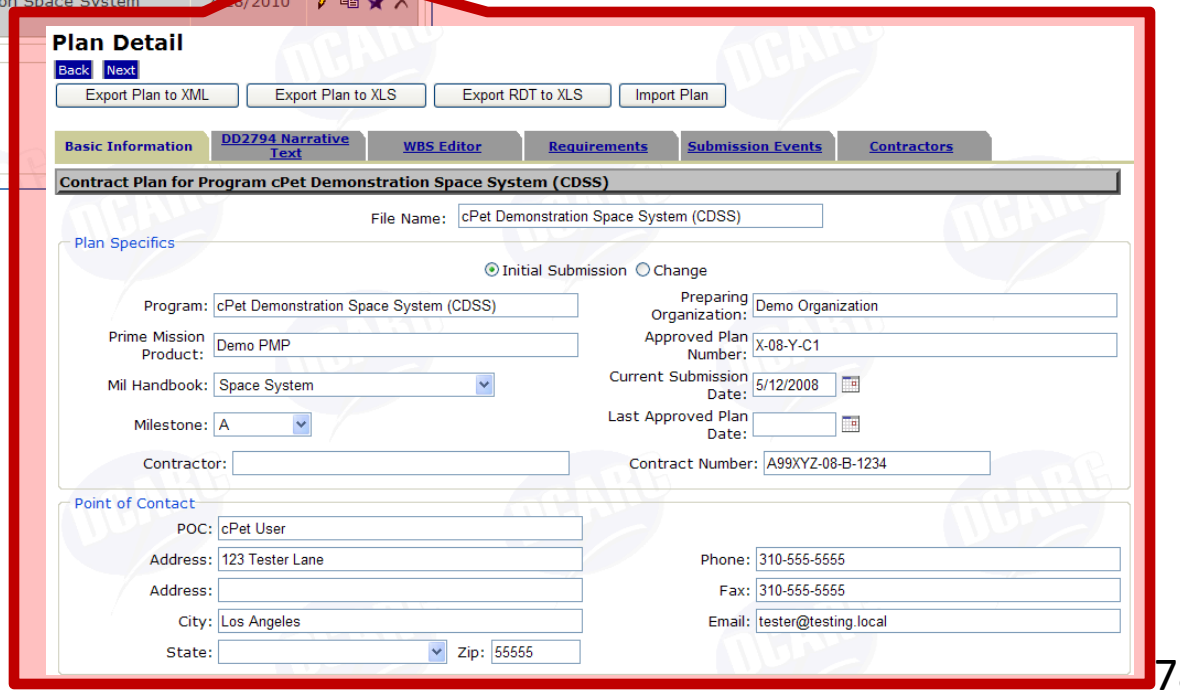


Core CSDR IT Systems

CSDR Plans and RDT

cPET-Web: CSDR Plan Development

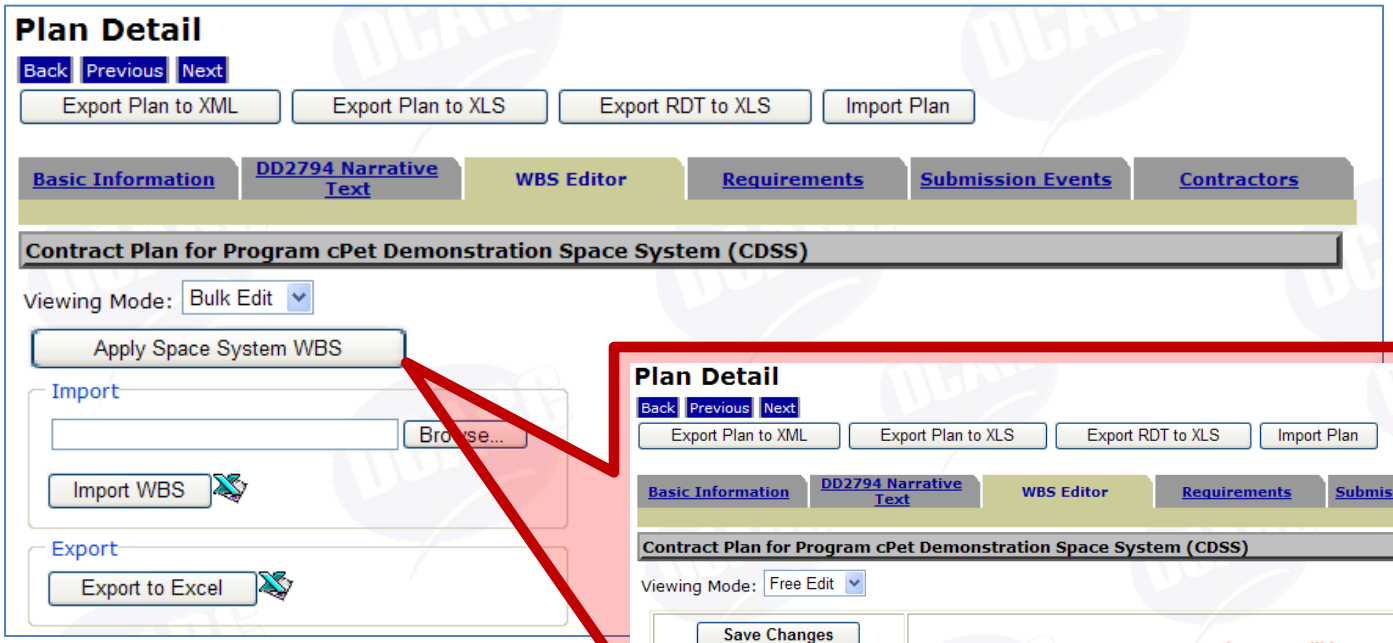


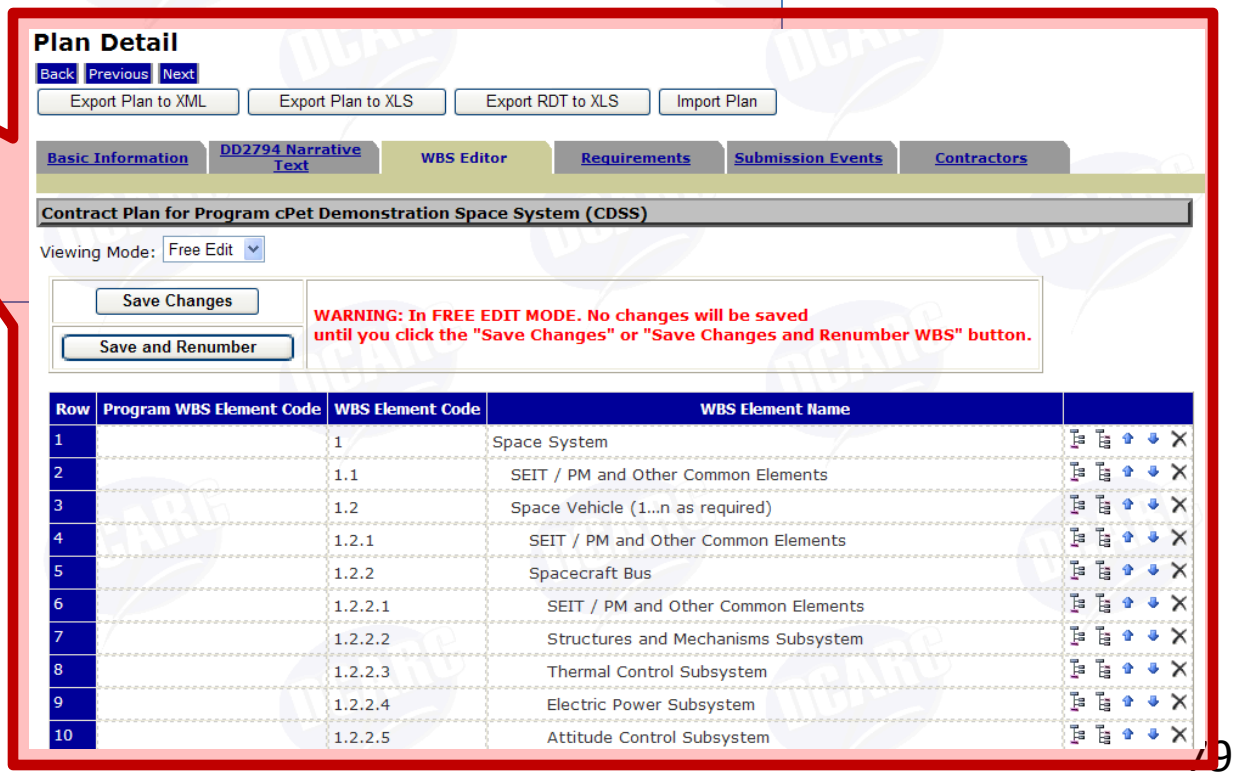


- Access from DCARC Portal
- Create/Edit CSDR Plans
  - Define WBS and reporting requirements
  - Define submission events
  - Assign contractors and create RDT

cPET-Web: CSDR Plan Development

- Build the WBS





Row	Program WBS Element Code	WBS Element Code	WBS Element Name
1		1	Space System
2		1.1	SEIT / PM and Other Common Elements
3		1.2	Space Vehicle (1...n as required)
4		1.2.1	SEIT / PM and Other Common Elements
5		1.2.2	Spacecraft Bus
6		1.2.2.1	SEIT / PM and Other Common Elements
7		1.2.2.2	Structures and Mechanisms Subsystem
8		1.2.2.3	Thermal Control Subsystem
9		1.2.2.4	Electric Power Subsystem
10		1.2.2.5	Attitude Control Subsystem

cPET-Web: CSDR Plan Development

- Define Reporting Requirements

Plan Detail

Back | Previous | Next

Export Plan to XML | Export Plan to XLS | Export RDT to XLS | Import Plan

Basic Information | DD2794 Narrative Text | WBS Editor | Requirements | Submission Events | Contractors

Contract Plan f... Program ... Pet Demonstration Space System (CDSS)

Save Changes

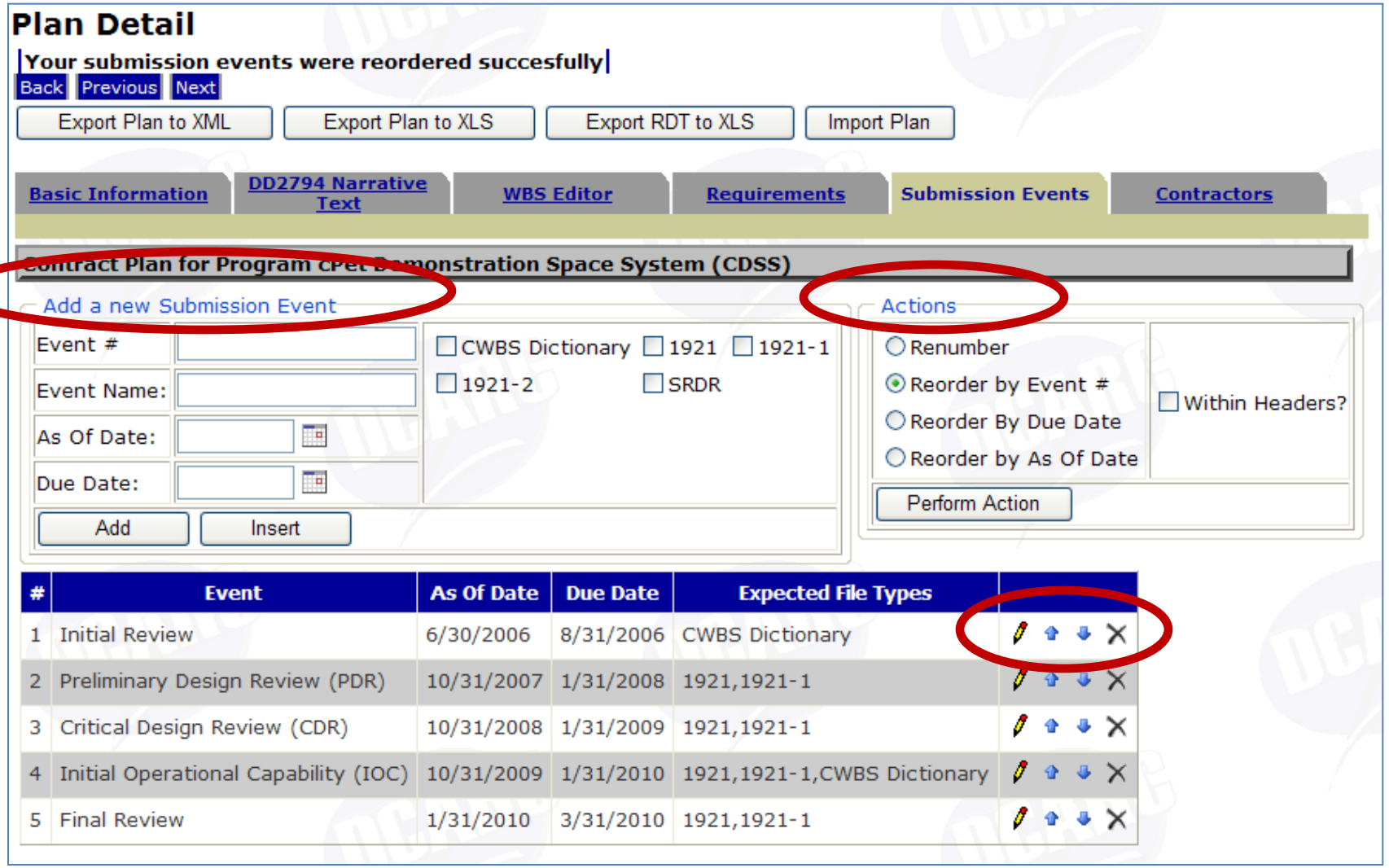
1921 ☑ All ☐ All

As long as you are navigating within the cPetWeb Website, your changes will autosave. But, if you leave the site or close the browser, make sure to click the save button below, to ensure your latest changes have been saved.

Row	Program Element Code	Contract Element Code	Element Name	N/A	CWBS Dictionary	1921	1921-1	1921-2	SRDR
1		1	Space System	☐	☑	☑	☑	☐	☐
2		1.1	SEIT / PM and Other Common Elements	☐	☑	☑	☑	☐	☐
3		1.2	Space Vehicle (1...n as required)	☐	☑	☑	☑	☐	☐
4		1.2.1	SEIT / PM and Other Common Elements	☐	☑	☑	☐	☐	☐
5		1.2.2	Spacecraft Bus	☐	☑	☑	☐	☐	☐
6		1.2.2.1	SEIT / PM and Other Common Elements	☐	☑	☑	☐	☐	☐
7		1.2.2.2	Structures and Mechanisms Subsystem	☐	☑	☑	☐	☐	☐
8		1.2.2.3	Thermal Control Subsystem	☐	☑	☑	☐	☐	☐
9		1.2.2.4	Electric Power Subsystem	☐	☑	☑	☐	☐	☐

cPET-Web: CSDR Plan Development

- Define Submission Events and Requirements



cPET-Web: CSDR Plan Development

- Create Draft Plan

Plan Detail

Back | Previous | Next

Export Plan to XML | Export Plan to XLS | Export RDT to XLS | Import Plan

COST AND SOFTWARE DATA REPORTING PLAN

Form Approved OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE ABOVE ORGANIZATION.

1a. PROGRAM (MDAP)	1b. PRIME MISSION PRODUCT	1c. MILESTONE	2. MIL-HDBK-881 APPENDIX USED
cPet Demonstration Space System (CDSS)	Demo PMP	X A / B / C: LRIP / C: PRODUCTION	Space System

3. SUBMISSION TYPE	4. CURRENT SUBMISSION DATE (YYYYMMDD)	5. LAST APPROVED PLAN DATE (YYYYMMDD)
X INITIAL / CHANGE	20080512	

6a. POINT OF CONTACT (POC) NAME AND ADDRESS (Include ZIP Code)	6b. TELEPHONE NUMBER (Include Area Code)	6c. FAX NUMBER (Include Area Code)	6d. E-MAIL ADDRESS
cPet User 123 Tester Lane Los Angeles, CA 55555	310-555-5555	310-555-5555	tester@testing.local

7. PLAN TYPE	8. PREPARING ORGANIZATION	9. APPROVED PLAN NUMBER
PROGRAM / X PRIME / X CONTRACT / SUB	Demo Organization	X-08-Y-C1

10. WBS ELEMENT CODE a. PROGRAM	10. WBS ELEMENT CODE b. CONTRACT	11. WBS REPORTING ELEMENTS	12a. CONTRACTOR NAME	12b. CONTRACT NUMBER	13. REPORTS REQUIRED (X if applicable) a. CWBS DICTIONARY	b. DD 1921 (CDSR)	c. DD 1921-1 (FCHR)	d. DD 1921-2 (PCR)	e. SRDR FORMATS
	1	Space System	Tecolote	A99XYZ-08-B-1234	X	X	X		
	1.1	SEIT / PM and Other Common Elements			X	X	X		
	1.2	Space Vehicle (1..n as required)			X	X			
	1.2.1	SEIT / PM and Other Common Elements			X	X			
	1.2.2	Spacecraft Bus			X	X			
	1.2.2.1	SEIT / PM and Other Common Elements			X	X			
	1.2.2.2	Structures and Mechanisms Subsystem			X	X			
	1.2.2.3	Thermal Control Subsystem			X	X			
	1.2.2.4	Electric Power Subsystem			X	X			
	1.2.2.5	Attitude Control Subsystem			X	X			
	1.2.2.6	Propulsion Subsystem			X	X			
	1.2.2.7	Telemetry, Tracking, and Command Subsystem			X	X			
	1.2.2.8	Spacecraft Bus Flight Software			X	X			
	1.2.3	Communication / Payload							
	1.2.3.1	SEIT / PM and Other Common Elements							
	1.2.3.2	Communication (1..n as required)							
	1.2.3.3	Payload (1..n as required)							
	1.2.3.4	Communications / Payload Flight Software (1..n as requi							
	1.2.4	Booster Adapter							
	1.2.5	Space Vehicle Storage							
	1.2.6	Launch Systems Integration							
	1.2.7	Launch Operations & Mission Support							
	1.3	Ground (1..n as required)							
	1.3.1	SEIT / PM and Other Common Elements							
	1.3.2	Ground Terminal Subsystems							
	1.3.3	Command and Control Subsystems							
	1.3.4	Mission Management Subsystems							
	1.3.5	Data Archive / Storage Subsystem							
	1.3.6	Mission Data Processing Subsystem							
	1.3.7	Mission Data Analysis and Dissemination Subsystem							
	1.3.8	Mission Infrastructure Subsystem							
	1.3.9	Collection Management Subsystem							
	1.4	Launch Vehicle			X				
		Subtotal Cost							
		Reporting Contractor G&A							
		Reporting Contractor Undistributed Budget							
		Reporting Contractor Management Reserve							
		Reporting Contractor FCCM							
		Total Cost							
		Reporting Contractor Profit/Loss or Fee							
		Total Price			X				

DD FORM 2794, 20070416 — PREVIOUS EDITION IS OBSOLETE

DD Form 2794, Pg 1 (CSDR Plan) | DD Form 2794, Pg 2 (CSDR Plan) — Ready — 50%

14. CSDR SUBMISSION DATES

a. SUBMISSION	b. FORM(S)	c. EVENT	d. AS OF DATE (YYYYMMDD)	e. DUE DATE (YYYYMMDD)
1	CWBS Dictionary	Initial Review	20060630	20060831
2	1921, 1921-1	Preliminary Design Review (PDR)	20071031	20080131
3	1921, 1921-1	Critical Design Review (CDR)	20081031	20090131
4	1921, 1921-1, CWBS Dictionary	Initial Operational Capability (IOC)	20091031	20100131
5	1921, 1921-1	Final Review	20100131	20100331

15. REMARKS

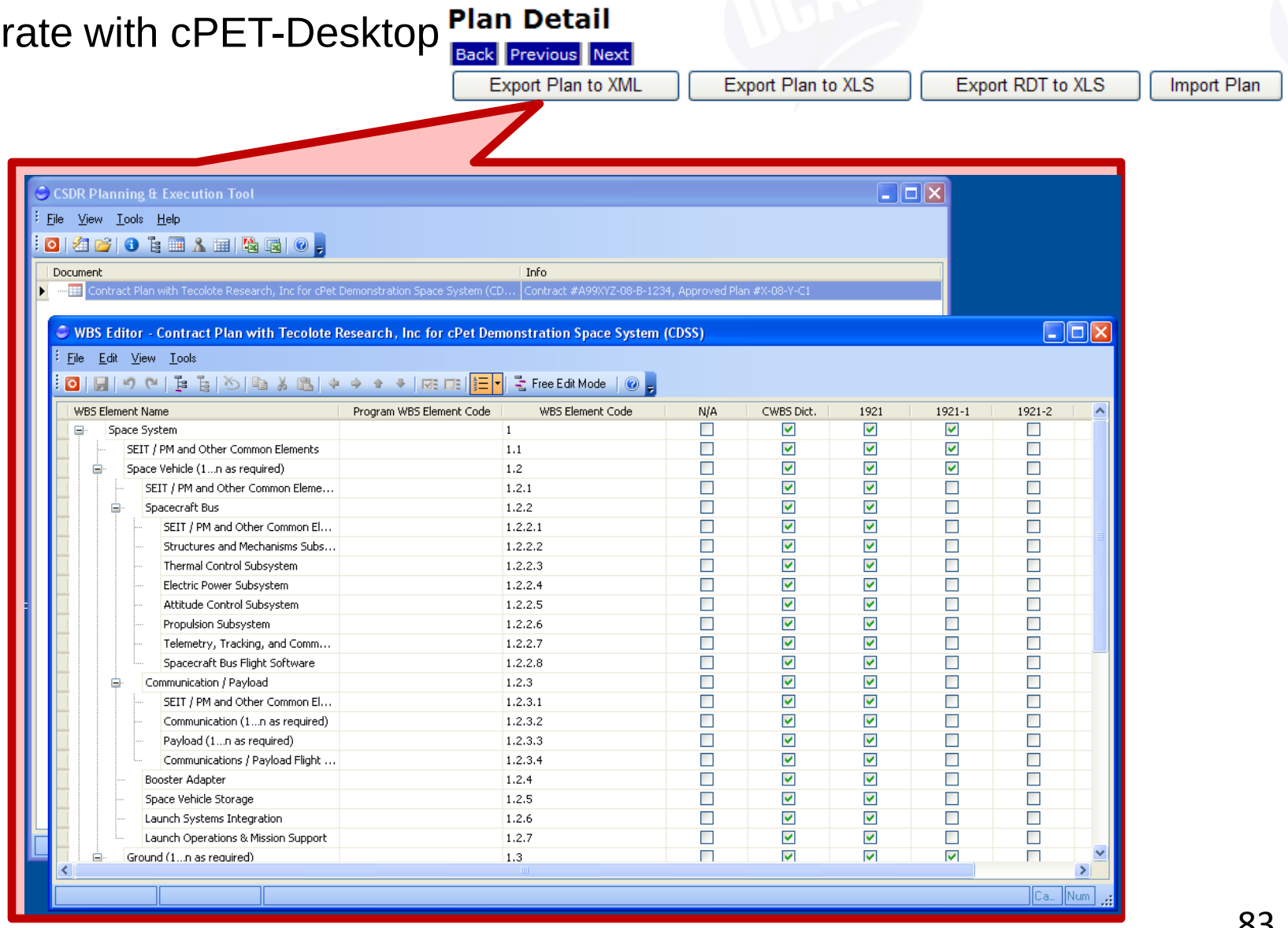
COST ACCOUNTING STANDARDS (CAS) DISCLOSURE STATEMENT DIFFERENCES
NON-RECURRING/RECURRING DEFINITIONS

DD FORM 2794 (BACK), 20070416 — PREVIOUS EDITION IS OBSOLETE

DD Form 2794, Pg 1 (CSDR Plan) | DD Form 2794, Pg 2 (CSDR Plan) — Ready — 50%

cPET-Web: CSDR Plan Development

- Integrate with cPET-Desktop



cPET-Web: RDT Development

- Assign Subcontractors /Responsibilities

Plan Detail

Back Next

Export Plan to XML | Export Plan to XLS | Export RDT to XLS | Import Plan

Basic Information | DD2794 Narrative Text | WBS Editor | Requirements | Submission Events | Contractors | RDT

Contract Plan for Program cPet Demonstration Space System (CDSS)

Available Sub Contractors

Add

Sub Contractor Details

Contractor	Gov. Org. or PARM	CSDR Dir. Rep	Total Est. Contract Value	Software Contract Value	GFE	SRDR Dir. Rep	
Sound Decisions					☐		✎ ✕
Technology Services Corp					☐		✎ ✕

Basic Information | DD2794 Narrative Text | WBS Editor | Requirements | Submission Events | Contractors | RDT

Contract Plan for Program cPet Demonstration Space System (CDSS)

Save Changes

As long as you are navigating within the cPetWeb Website, your changes will autosave. But, if you leave the site or close the browser, make sure to click the save button below, to ensure your latest changes have been saved.

Sound Decisions ☑ All ☐ All

Row	Program Element Code	Contract Element Code	Element Name	Sound Decisions	Technology Services Corp
1		1	Space System	☐	☐
2		1.1	SEIT / PM and Other Common Elements	☐	☐
3		1.2	Space Vehicle (1...n as required)	☐	☐
4		1.2.1	SEIT / PM and Other Common Elements	☐	☐
5		1.2.2	Spacecraft Bus	☐	☐
6		1.2.2.1	SEIT / PM and Other Common Elements	☐	☐
7		1.2.2.2	Structures and Mechanisms Subsystem	☐	☐
8		1.2.2.3	Thermal Control Subsystem	☐	☐

cPET-Web: CSDR Plan Development

- Integrate with cPET-Desktop

Plan Detail

Back | Previous | Next

Export Plan to XML | Export Plan to XLS | Export RDT to XLS | Import Plan

Resource Distribution Table (RDT)
cPet Demonstration Space System (CDSS) - The Boeing Company

	Prime Contractor		Subcontractors		
Prime Contractor or Sub-Contractor	Total	In-House	Total	Sub	Sub
Description					
Contractor/Organization Name	The Boeing Company			Sound Decisions	Technology Services Corp
Contractor/Organization Location					
Contract Number	A99XYZ-08-B-1234				
Total Program Office or Contract/Effort Value (Estimated), TY$M					
Subtotal Software Contract Value (Estimated), TY$M					
Government Organization or PARM					
CSDR Direct Reporting per CWIPT (Yes/No)					
SRDR Direct Reporting per CWIPT (Yes/No)					

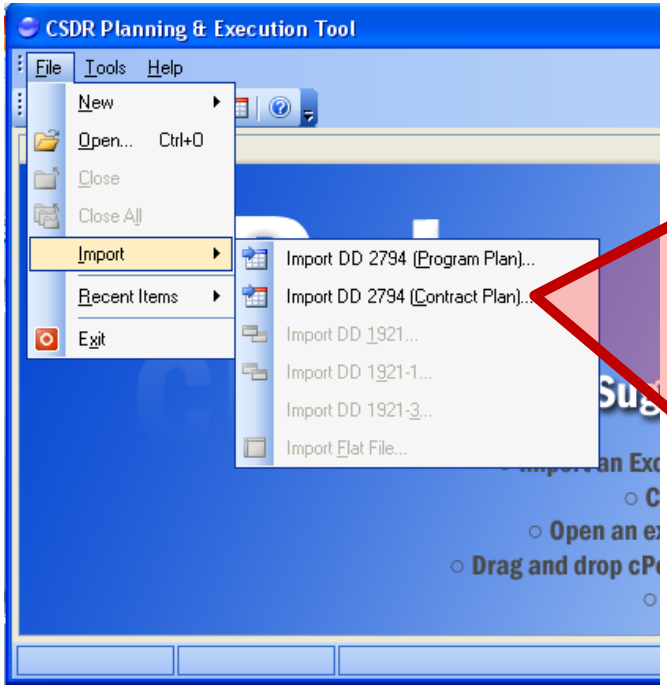
WBS NUMBERS	WBS Element Name L1	L2	L3	L4	L5					
1.0	Space System						X			
1.1		SEIT/PM and Other Common Elements					X			
1.2		Space Vehicle (1….n as required)					X			
1.2.1			SEIT/PM and Other Common Elements				X			
1.2.2			Spacecraft Bus				X			
1.2.2.1				Integration, Assembly, Test and Checkout			X			
1.2.2.2				Telemetry, Tracking, and Command Subsystem			X		X	
1.2.3			Communication / Payload				X			X
1.2.3.1				Communication			X			X
1.2.3.1.1					UHF Antenna Subsystem		X			X
1.2.3.1.2					KA Antenna Subsystem		X			X
1.2.3.2				Payload			X			
1.2.3.2.1					Legacy Subsystem		X			
1.2.3.2.2					KA to UHF Subsystem		X			
1.2.4			Booster Adapter				X			
1.2.5			Space Vehicle Storage				X			
1.2.6			Launch Systems Integration				X			
1.2.7			Launch Operations & Mission Support				X			
1.2.8			test				X			
1.3		Ground (1…n as required)					X			
1.3.1			SEIT/PM and Other Common Elements				X			
1.3.2			Ground Terminal Subsystems				X			
1.3.3			Command and Control Subsystem				X			
1.3.4			Mission Management Subsystem				X			
1.3.5			Data Archive/Storage Subsystem				X			
1.3.6			Mission Data Processing Subsystem				X			
1.3.7			Mission Data Analysis and Dissemination Subsystem				X			
1.3.8			Mission Infrastructure Subsystem				X			
1.3.9			Collection Management Subsystem				X			
1.3.10			Satellite Control Subsystem				X			
1.4		Launch Vehicle					X			
1.5		User Equipment					X			

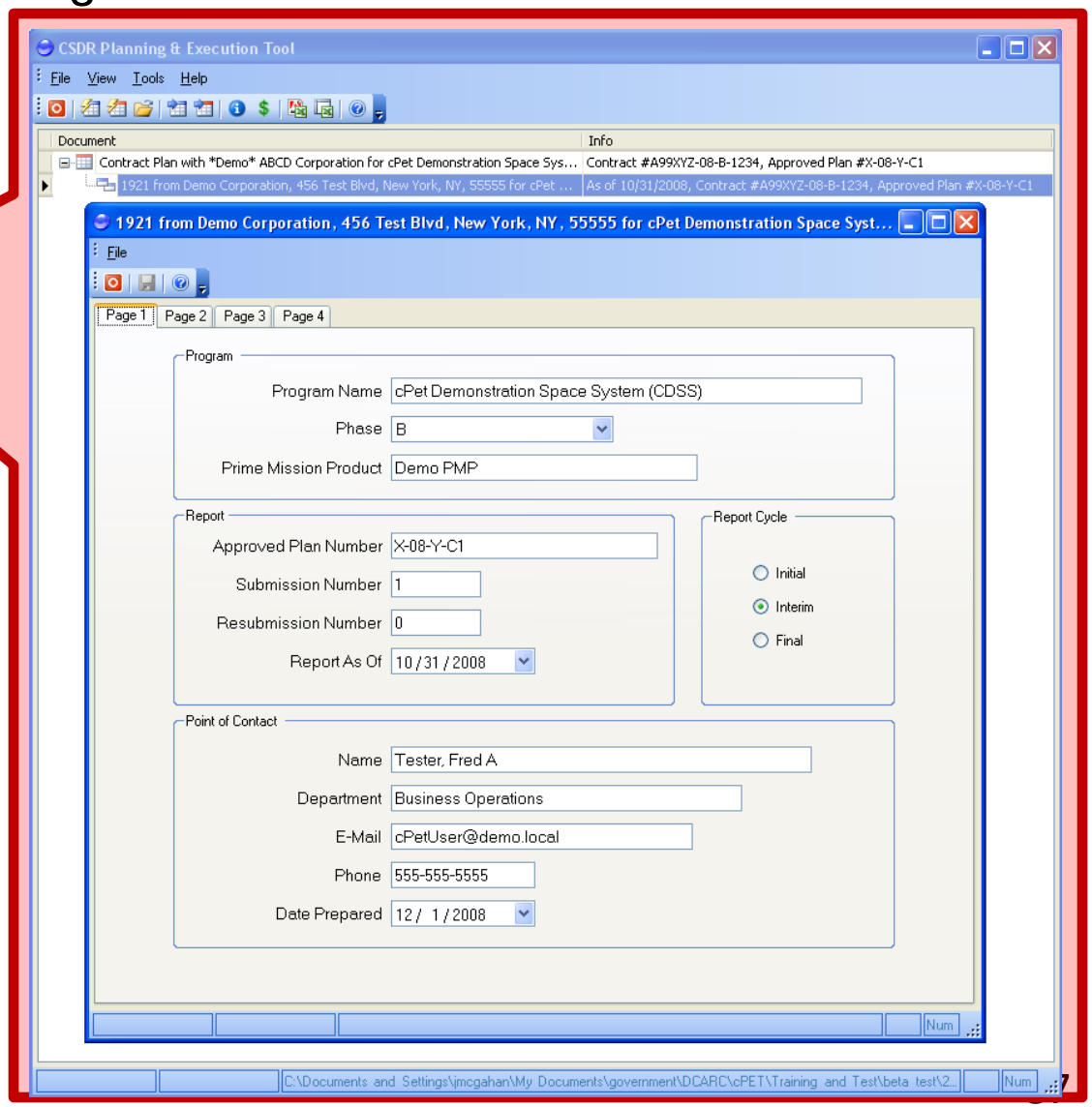
cPET Status

- Next cPET Desktop Release Will Support
  - 2011 forms (CSDR Plans, 1921, 1921-1); continuing to support older forms
  - 1921-3 (Excel import/export, validations)
  - Mil Std 881C
  - Other minor updates
    - Easier to use without having a Program Plan
    - More data validation warning
    - Converting from 2007 to 2011 formats
- Planned Schedule
  - Release candidate for testing: early November
  - Release: end of November
  - Integrate into cPET Web: target December
  - Support 2011 formats in CSDR-SR: target December
  - Add new 1921-3 validation functionality into 1921-3/FPR SR: target January

cPET Desktop Update: Coming Soon!

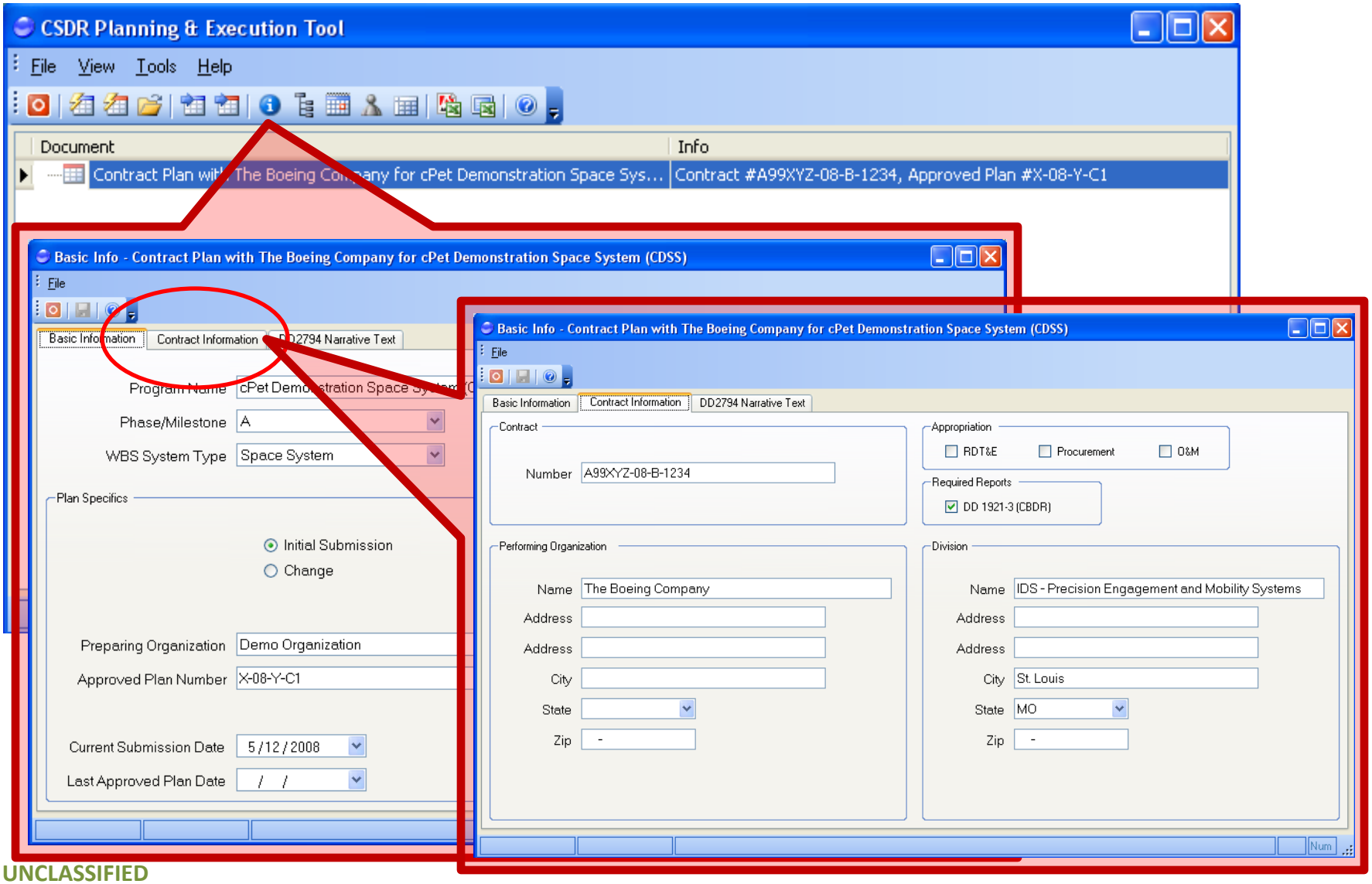
- Removed requirement for Program Plan





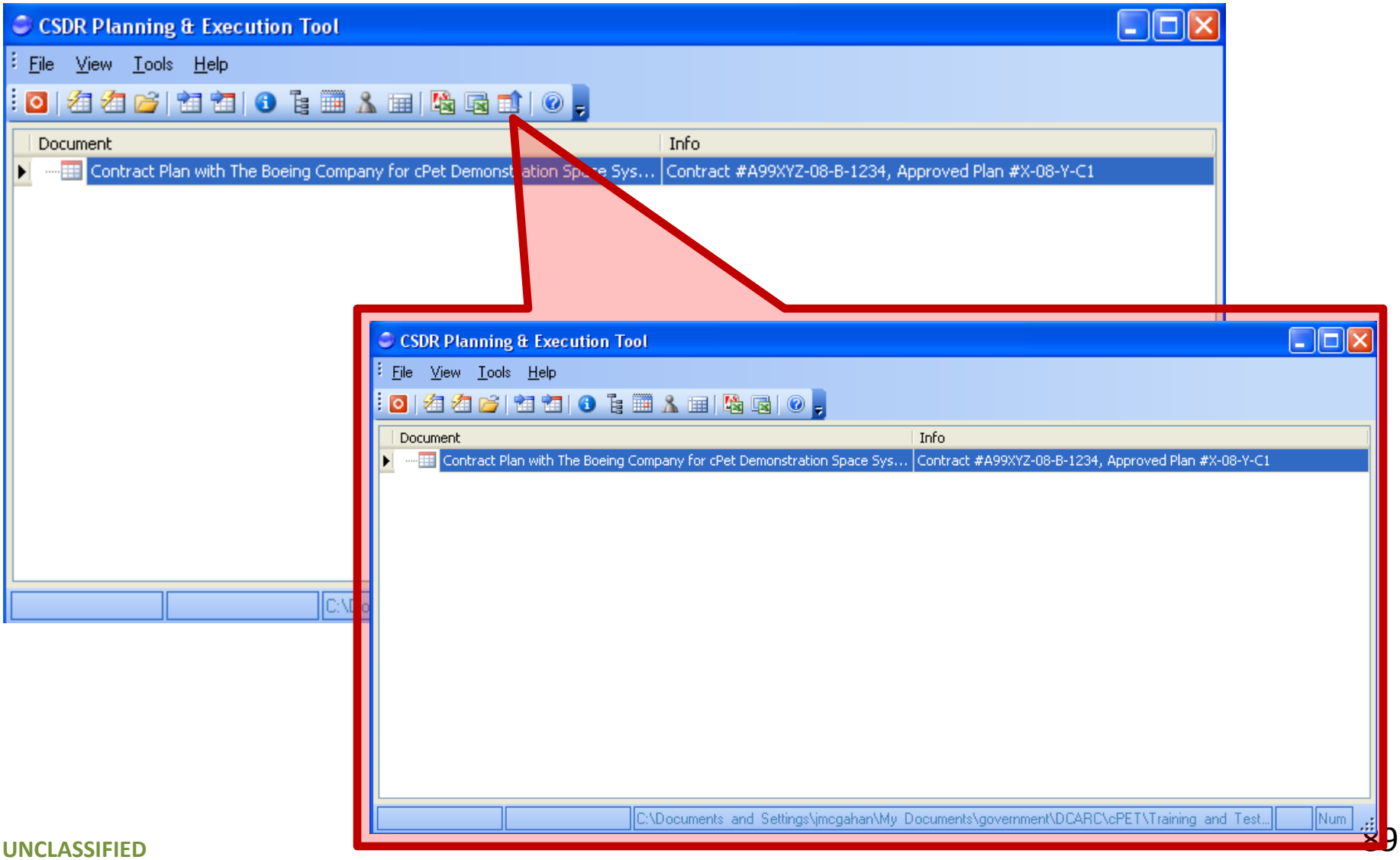
Contract Plans Without Program Plan

- So you need to identify “performing” contractor



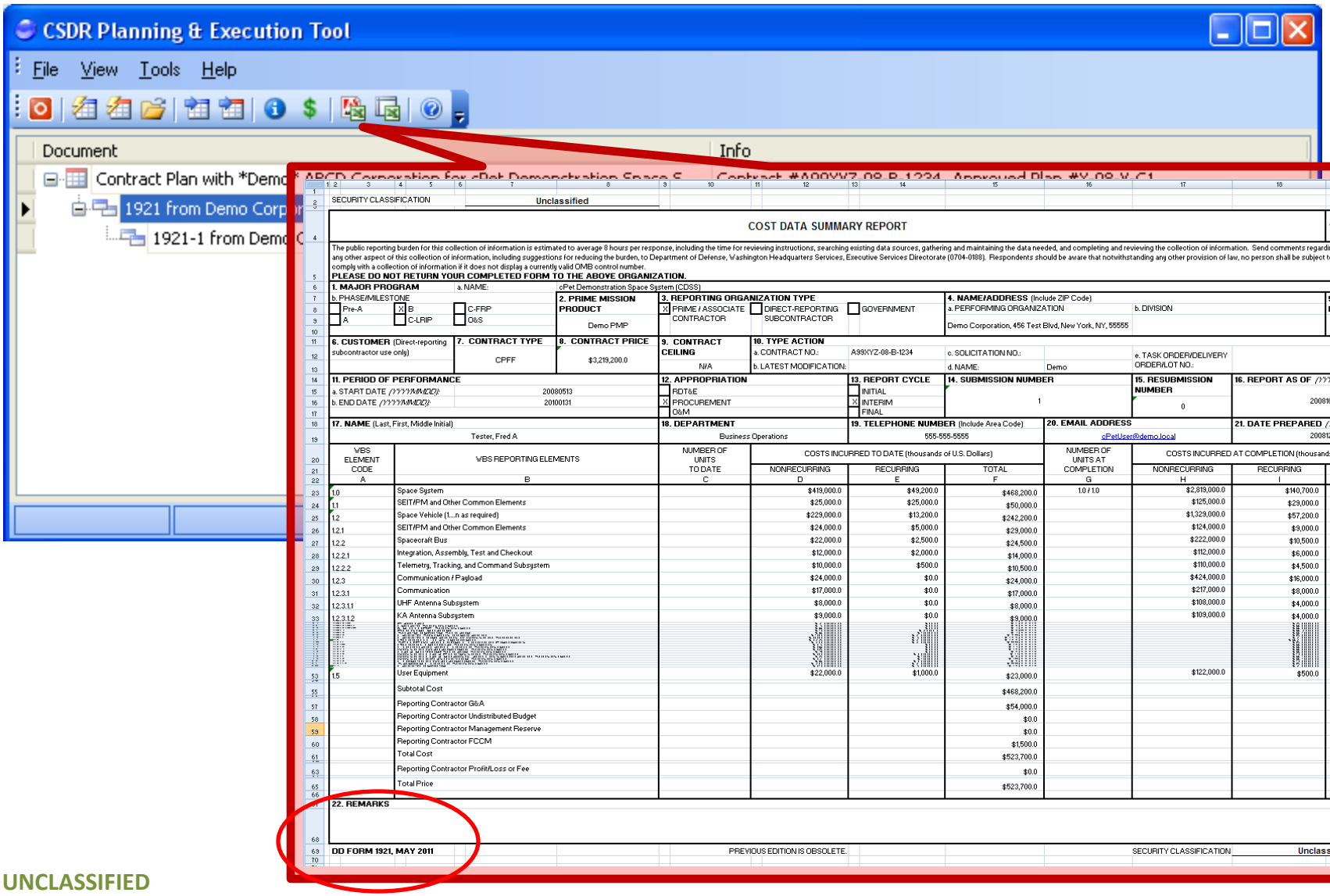
cPET: Supports 2007 and 2011 Forms

- Import and optionally convert plans from 2007 to 2011



cPET: Supports 2007 and 2011 Forms

- Export to Excel



SECURITY CLASSIFICATION: Unclassified

COST DATA SUMMARY REPORT

Form Approved OMB No. 0704-0188

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PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE ABOVE ORGANIZATION.

1. MAJOR PROGRAM	a. NAME:	cPet Demonstration Space System (CDSS)				
b. PHASE/MILESTONE		2. PRIME MISSION PRODUCT	3. REPORTING ORGANIZATION TYPE		4. NAME/ADDRESS (Include ZIP Code)	5. APPROVED PLAN NUMBER
☐ Pre-A ☐ A	☒ B ☐ C-FRP ☐ C-LRIP ☐ O&S	Demo PMP	☒ PRIME / ASSOCIATE CONTRACTOR ☐ DIRECT-REPORTING SUBCONTRACTOR ☐ GOVERNMENT		a. PERFORMING ORGANIZATION: Demo Corporation, 456 Test Blvd, New York, NY, 55555	b. DIVISION	X-08-Y-C1

6. CUSTOMER (Direct-reporting subcontractor use only)	7. CONTRACT TYPE	8. CONTRACT PRICE	9. CONTRACT CEILING	10. TYPE ACTION				
				a. CONTRACT NO.: A99XYZ-08-B-1234	c. SOLICITATION NO.:	e. TASK ORDER/DELIVERY ORDER/LOT NO.:		
	CPFF	$3,219,200.0	N/A	b. LATEST MODIFICATION:	d. NAME: Demo			

11. PERIOD OF PERFORMANCE		12. APPROPRIATION	13. REPORT CYCLE	14. SUBMISSION NUMBER	15. RESUBMISSION NUMBER	16. REPORT AS OF (YYYYMMDD)
a. START DATE (YYYYMMDD):	20080513	☐ RDT&E	☐ INITIAL			
b. END DATE (YYYYMMDD):	20100131	☒ PROCUREMENT	☒ INTERIM	1	0	20081031
		☐ O&M	☐ FINAL			

17. NAME (Last, First, Middle Initial)	18. DEPARTMENT	19. TELEPHONE NUMBER (Include Area Code)	20. EMAIL ADDRESS	21. DATE PREPARED (YYYYMMDD)
Tester, Fred A	Business Operations	555-555-5555	cPetUser@demo.local	20081201

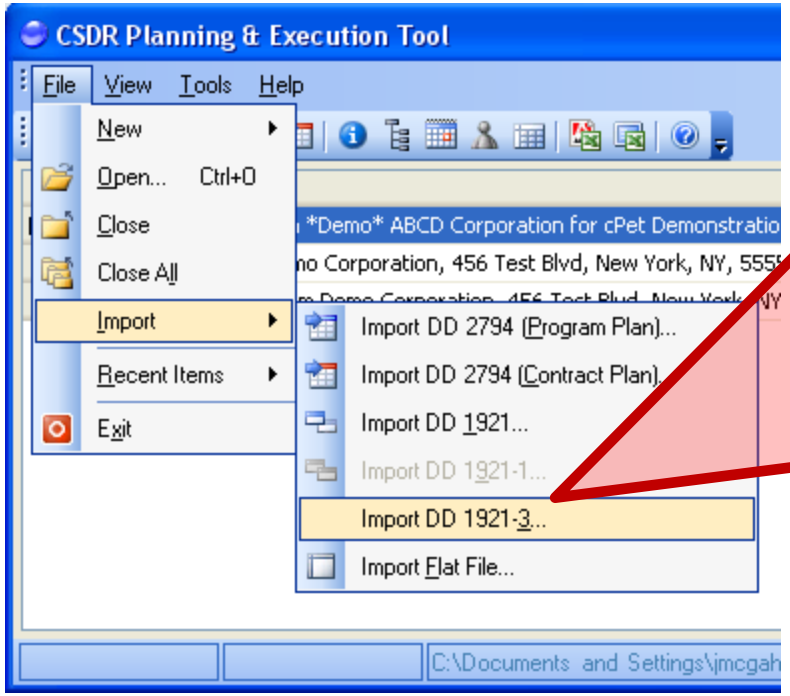
WBS ELEMENT CODE	WBS REPORTING ELEMENTS	NUMBER OF UNITS TO DATE	COSTS INCURRED TO DATE (thousands of U.S. Dollars)			NUMBER OF UNITS AT COMPLETION	COSTS INCURRED AT COMPLETION (thousands of U.S. Dollars)		
			NONRECURRING	RECURRING	TOTAL		NONRECURRING	RECURRING	TOTAL
A	B	C	D	E	F	G	H	I	J
1.0	Space System		$419,000.0	$49,200.0	$468,200.0	1.0 / 1.0	$2,819,000.0	$140,700.0	$2,959,700.0
1.1	SEIT/PM and Other Common Elements		$25,000.0	$25,000.0	$50,000.0		$125,000.0	$29,000.0	$154,000.0
1.2	Space Vehicle (1...n as required)		$229,000.0	$13,200.0	$242,200.0		$1,329,000.0	$57,200.0	$1,386,200.0
1.2.1	SEIT/PM and Other Common Elements		$24,000.0	$5,000.0	$29,000.0		$124,000.0	$9,000.0	$133,000.0
1.2.2	Spacecraft Bus		$22,000.0	$2,500.0	$24,500.0		$222,000.0	$10,500.0	$232,500.0
1.2.2.1	Integration, Assembly, Test and Checkout		$12,000.0	$2,000.0	$14,000.0		$112,000.0	$6,000.0	$118,000.0
1.2.2.2	Telemetry, Tracking, and Command Subsystem		$10,000.0	$500.0	$10,500.0		$110,000.0	$4,500.0	$114,500.0
1.2.3	Communication / Payload		$24,000.0	$0.0	$24,000.0		$424,000.0	$16,000.0	$440,000.0
1.2.3.1	Communication		$17,000.0	$0.0	$17,000.0		$217,000.0	$8,000.0	$225,000.0
1.2.3.1.1	UHF Antenna Subsystem		$8,000.0	$0.0	$8,000.0		$108,000.0	$4,000.0	$112,000.0
1.2.3.1.2	KA Antenna Subsystem		$9,000.0	$0.0	$9,000.0		$109,000.0	$4,000.0	$113,000.0
	[redacted]								
1.5	User Equipment		$22,000.0	$1,000.0	$23,000.0		$122,000.0	$500.0	$122,500.0
	Subtotal Cost				$468,200.0				$2,959,700.0
	Reporting Contractor G&A				$54,000.0				$158,000.0
	Reporting Contractor Undistributed Budget				$0.0				$0.0
	Reporting Contractor Management Reserve				$0.0				$0.0
	Reporting Contractor FCCM				$1,500.0				$101,500.0
	Total Cost				$523,700.0				$3,219,200.0
	Reporting Contractor Profit/Loss or Fee				$0.0				$0.0
	Total Price				$523,700.0				$3,219,200.0

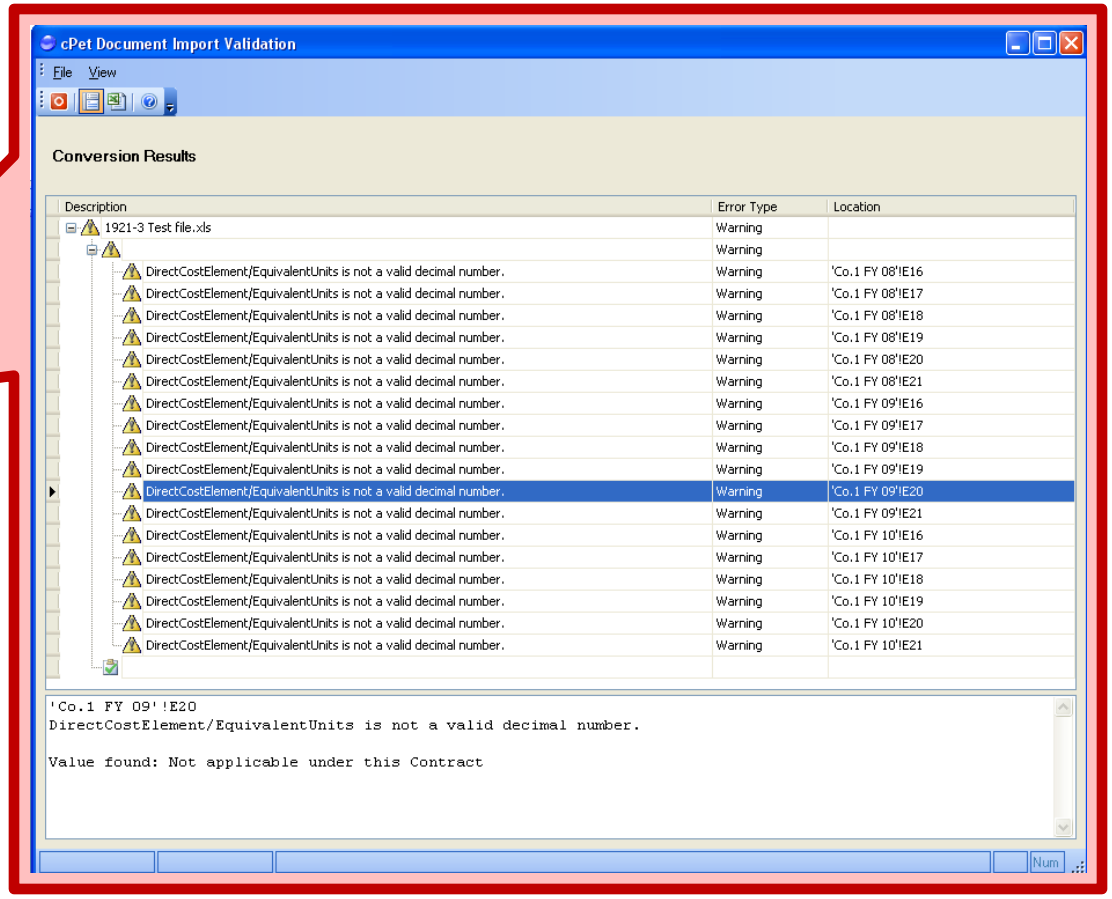
22. REMARKS

DD FORM 1921, MAY 2011 — PREVIOUS EDITION IS OBSOLETE. — SECURITY CLASSIFICATION: Unclassified

cPET: Supports 1921-3

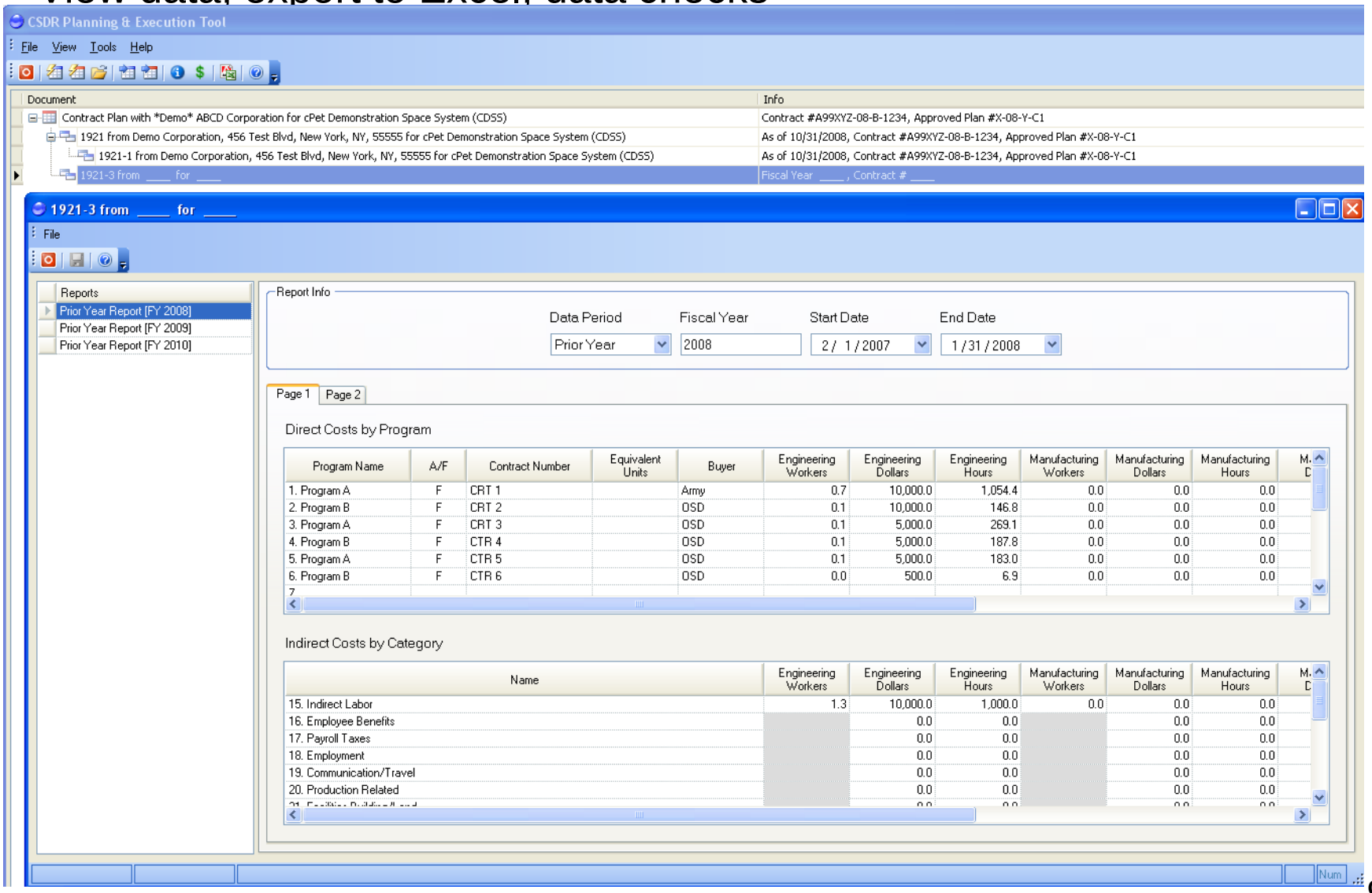
- Import and Format Check





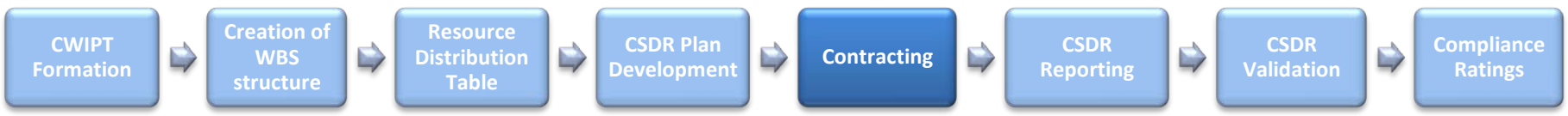
cPET: Supports 1921-3

- View data, export to Excel, data checks

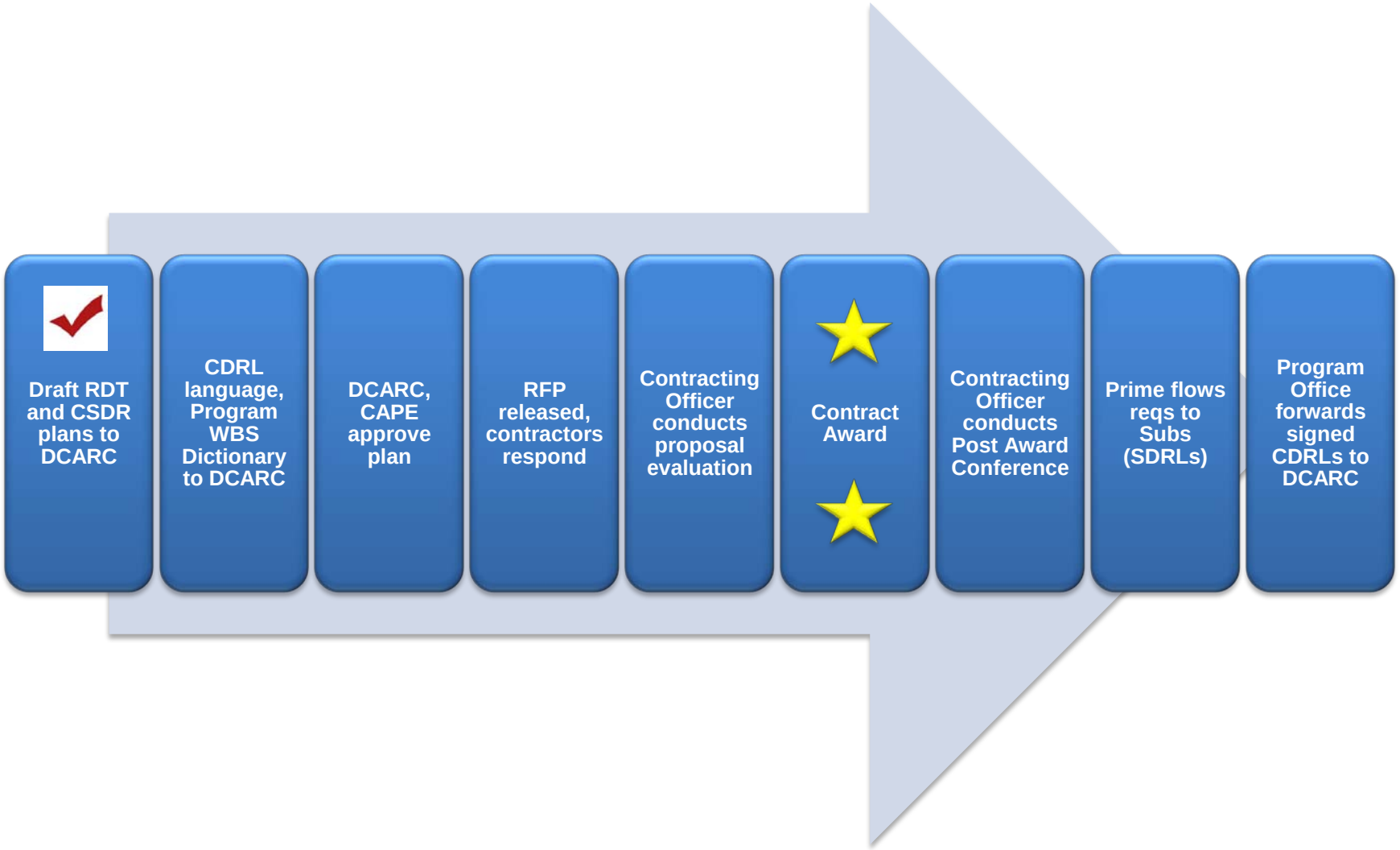


Contracting

Begins 60 days prior to RFP release



Contracting



Program Office Deliverables

60 Days Prior to RFP Release

RFP Language	Program Plan	Program WBS Dictionary	Program RDT	Program Schedule	Contract Plan Contract RDT	Initial Gov't SW Estimate

RFP Release

Approved Program Plan	Program RDT	Program WBS Dictionary	Approved Contract Plan Contract RDT	Electronic copy of RFP (due 15 days after release)

Contract Award/Definitization

Contracting officer holds Post Contract Award Meeting with Prime Contractor(s)

30 Days After Contract Award

Signed Prime Contract Data Requirements Lists (DD Form 1423-1)	Prime Contractor forwards subcontractor requirements to PO

45 Days After Contract Award

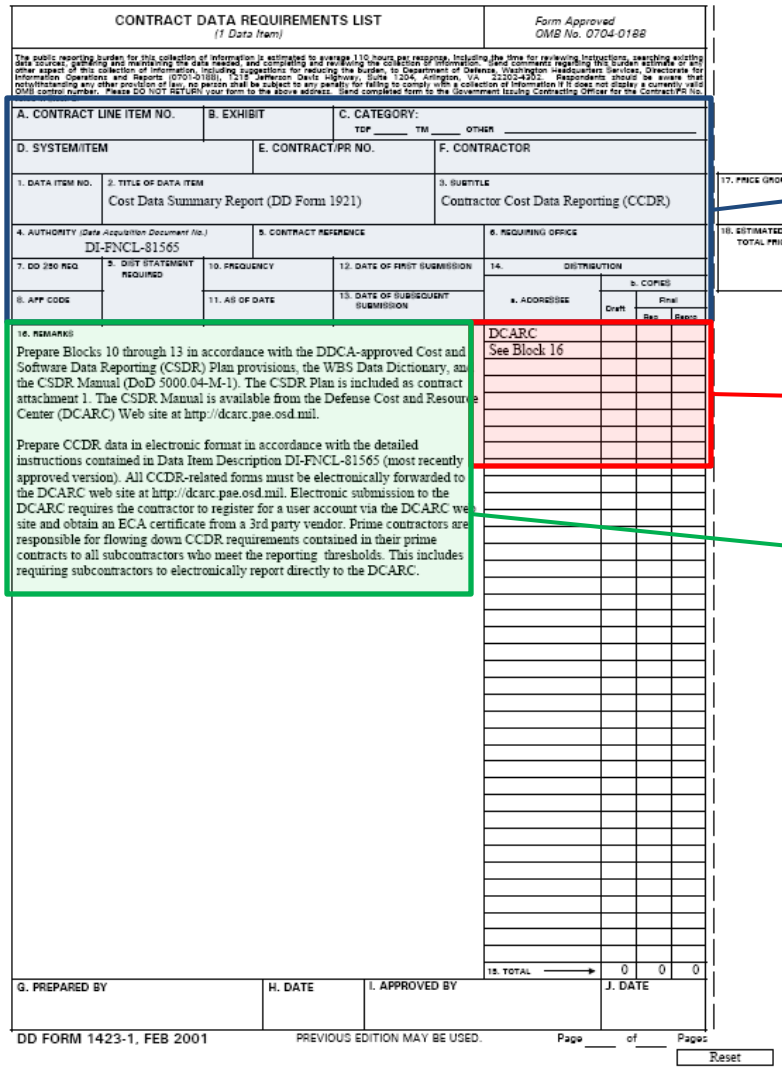
Subcontractor Data Requirements List (SDRLs) forwarded to DCARC

Contract Data Requirements List (CDRLs) DD Form 1423-1

- Draft CDRLs (DD Form 1423-1) must be submitted to the DCARC 60 days prior to RFP Release
- One CDRL per required cost reporting form:
  - "Cost Data Summary Report" (DD Form 1921)
  - "Functional Cost-Hour Report" (DD Form 1921-1)
  - "Progress Curve Report" (DD Form 1921-2)
  - "Contractor Sustainment Report" (DD Form 1921-4)
  - "Contract Work Breakdown Structure" (CWBS Dictionary)
  - "Software Resources Data Reporting: Initial Developer Report and Data Dictionary" (Initial Developer Report)
  - "Software Resources Data Reporting: Final Developer Report and Data Dictionary" (Final Developer Report)
- CDRLs are cited three times within RFP:
  - Section B (Supplies and Services)
  - Section C (Description/Specs)
  - Contract Statement of Work (SOW), as attachments

Example CDRLs: http://dcarc.pae.osd.mil/Policy/csdrContracting.aspx

CDRL Example



CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No.

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP ____ TM ____ OTHER ____		
D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR		
1. DATA ITEM NO.	2. TITLE OF DATA ITEM: Cost Data Summary Report (DD Form 1921)	3. SUBTITLE: Contractor Cost Data Reporting (CCDR)	17. PRICE GROUP	
4. AUTHORITY (Data Acquisition Document No.): DI-FNCL-81565	5. CONTRACT REFERENCE	6. REQUIRING OFFICE	18. ESTIMATED TOTAL PRICE	
7. DD 250 REQ	8. DIST STATEMENT REQUIRED	9. FREQUENCY	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE / b. COPIES: Draft, Final Rep, Final Repro

16. REMARKS

Prepare Blocks 10 through 13 in accordance with the DDCA-approved Cost and Software Data Reporting (CSDR) Plan provisions, the WBS Data Dictionary, and the CSDR Manual (DoD 5000.04-M-1). The CSDR Plan is included as contract attachment 1. The CSDR Manual is available from the Defense Cost and Resource Center (DCARC) Web site at http://dcarc.pae.osd.mil.

Prepare CCDR data in electronic format in accordance with the detailed instructions contained in Data Item Description DI-FNCL-81565 (most recently approved version). All CCDR-related forms must be electronically forwarded to the DCARC web site at http://dcarc.pae.osd.mil. Electronic submission to the DCARC requires the contractor to register for a user account via the DCARC web site and obtain an ECA certificate from a 3rd party vendor. Prime contractors are responsible for flowing down CCDR requirements contained in their prime contracts to all subcontractors who meet the reporting thresholds. This includes requiring subcontractors to electronically report directly to the DCARC.

a. ADDRESSEE	b. COPIES: Draft	Final Rep	Final Repro
DCARC			
See Block 16			
15. TOTAL	0	0	0

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE

DD FORM 1423-1, FEB 2001 PREVIOUS EDITION MAY BE USED. Page ____ of ____ Pages

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Metadata

Distribution Requirements

Standard Remarks Language, including:
-Approved Contract Plan Number
-Electronic Submission Instructions
-DID Reference Number
-Special Reporting Requirements

Program WBS Dictionary

- Program WBS Dictionary should be submitted to DCARC by the government Program Office
  - Contains technical and cost content definitions for each Program WBS element including descriptions for government SE/PM, GFE/lab, and other non-contract items.

RFP Release

- Draft RFPs should contain a CAPE-approved CSDR Contract Plan and RDT
- Final RFPs must contain a CAPE-approved CSDR Contract Plan and RDT
- The RFP establishes the CSDR requirement, the reporting CWBS, report types, and report frequencies
- As of November 2010 the Defense Federal Acquisition Regulations Supplement (DFARS) clause formally establishes CSDR requirements pre and post contract award

Contractor Response to RFP

- As a result of the CSDR DFARS clause, the contractor shall:
  - Describe the process to be used to satisfy the requirements of the CSDR Manual and the CSDR Plan
  - Demonstrate how CSDR reporting will be based, to the maximum extent possible, upon actual cost transactions and not cost allocations
  - Demonstrate how the data from its accounting system will be mapped into the standard reporting categories required in the CSDR DIDs
  - Describe how recurring and nonrecurring costs will be segregated
  - Provide comments on the adequacy of the CSDR contract plan and RDT
  - Submit DD Form 1921 and 1921-1 with its pricing proposal
  - CSDR reporting will be required for subcontracts at any tier with a value that exceeds $50M

http://www.acq.osd.mil/dpap/dars/dfars/html/current/252234.htm
(clauses 252.234.7003 and 252.234.7004)

Contracting Officer Responsibilities

- As a result of the CSDR DFARS clause, the Contracting Officer shall:
  - Implement CSDR reporting on all contracts that meet CSDR requirement thresholds
  - Consult with the DCARC to determine that the contractor has proposed a standard CSDR system that complies with the CSDR plan
  - Check proposed CSDR system for compliance with the CSDR manual and DIDs
  - Conduct a Post Award Conference to address the CSDR requirement

http://www.acq.osd.mil/dpap/dars/dfars/html/current/242_5.htm#242.503
(clause 242.503-2)

Contract Award

Post Contract Award

- Contracting Officer shall, as required by the CSDR DFARS clause, conduct a Post Award Conference to discuss the CSDR requirement:
  - Contractor's compliance with CSDR manual and DIDs
  - Requirements in approved CSDR plan and related RDT
  - Discrepancies in contractor's internal accounting system
  - Definitions of recurring vs. nonrecurring costs
- DCARC's involvement will be at the discretion of the Contracting Officer

http://www.acq.osd.mil/dpap/dars/dfars/html/current/242_5.htm#242.503
(clause 242.503-2)

Subcontractor Requirements

- Prime Contractor develops subcontract plans consistent with the Contract and Program Plans
- All subcontractor plans are submitted to the DCARC via the Government Program Office
- Prime Contractor has the responsibility of placing approved CSDR Subcontract Plans on all applicable subcontracts
- Subcontract Data Requirements Lists (SDRLs) should be completed for each required CSDR and placed on each appropriate Subcontract

CDRLs submitted to DCARC

- Final versions of the Prime Contract CDRLs (DD Form 1423-1) must be signed by the government Program Office and forwarded to the DCARC within 30 days of Contract Award
- Once each applicable subcontract is awarded, the Prime Contractor must forward SDRLs to the Program Office within 30 days of Subcontract Award
- The Program Office is required to forward SDRLs to the DCARC within 45 days of Subcontract Award